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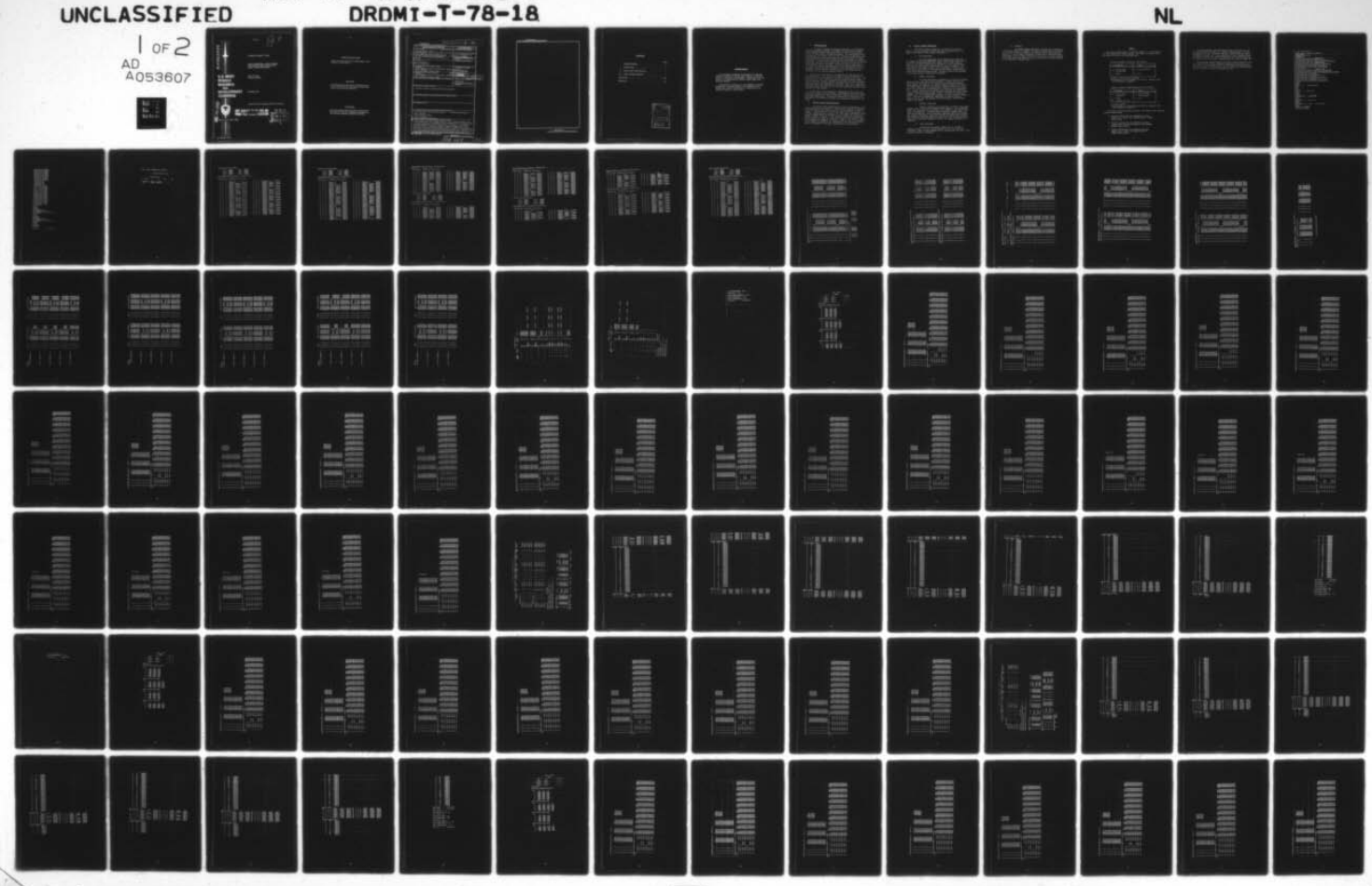

TECHNICAL REPORT T-78-18

THREE-DIMENSIONAL FINITE ELEMENT ANALYSIS OF A SOLID PROPELLANT GRAIN TRANSITION REGION

Robert M. Hackett
Propulsion Directorate

U.S. ARMY MISSILE RESEARCH AND DEVELOPMENT COMMAND

November 1977

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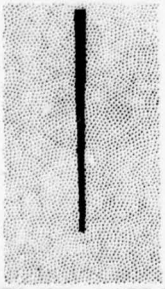
Redstone Arsenal, Alabama 35809



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Grain Transition Region
Thermal Stresses
Finite Element Mesh Generation
Incompressible Material

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

A three-dimensional finite element analysis of the transition region, from a star cross-section to a cylindrical bore cross-section, for a typical solid propellant rocket motor grain configuration is carried out. The recently developed TEXGAP-3D (Texas Grain Analysis Program, 3-Dimensional) static linear elastic stress analysis computer program is employed in the analysis. Two loading conditions, combustion pressure and thermal, are considered, along with corresponding transition interface displacements obtained from previous two-dimensional finite element analyses of the uniform grain regions.

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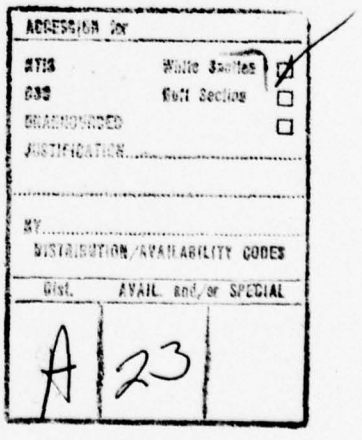
CONTENTS



ACKNOWLEDGMENT

The invaluable assistance of Don Martin in getting TEXGAP-3D operable on the CDC 6600 computer at Redstone Arsenal is gratefully acknowledged. Discussions with him relative to formulating the finite element model were also most helpful.

Appreciation is expressed to the MIRADCOM Propulsion Directorate - Redstone Arsenal, Army Research Office - Durham, and Battelle Laboratories - Durham Office for financial support of this project.

I. INTRODUCTION

In order to extend the analysis capability of the MIRADCOM Propulsion Mechanics Function, the TEXGAP-3D static linear elastic finite element computer code was obtained in July 1977 to be placed on the CDC 6600 computer at Redstone Arsenal. The development of the code evolved from a pilot effort in 1973, funded by Thiokol/Huntsville Division and more recently (the past two and a half years) has been sponsored by the US Air Force Rocket Propulsion Laboratory at Edwards, California. A short course on the TEXGAP-3D code, sponsored by Pacifica Technology, was held in Los Angeles the latter part of June 1977 at which time the code was released. Previous successful employment of the TEXGAP-2D computer code (developed by the same research group) by personnel of the Propulsion Mechanics Function primarily led to the decision to expend the effort necessary to get the TEXGAP-3D code operational on the Redstone computer system.

Once the code was adapted to the Redstone CDC 6600 computer and made operational, a task requiring a number of minor modifications to the obtained version of the code, a check-out procedure was begun. The check-out of the code involved running six classical check problems and two additional example problems and comparing the results obtained (computer output) with the results of computer runs (of the same problems) provided by the developers of TEXGAP-3D. Once these comparisons were made it was concluded that the code was operating correctly on the Redstone CDC 6600 computer.

At this point, the utilization of TEXGAP-3D for the purpose for which it was acquired was undertaken. The TEXGAP-3D analysis to which this report pertains is that of a transition region in a typical solid propellant rocket motor. The specific details of the analysis and a discussion of the results are given in the subsequent sections of this report.

II. ROCKET GRAIN CONFIGURATION

The rocket grain configuration is taken from Reference 1 and reproduced, in part, in Figure 1. Since only the transition region is to be considered, only that portion of the total geometry is shown in Figure 1. The transition is from a four-point star cross-section to a circular cylindrical bore cross-section. The region considered actually extends somewhat beyond (a distance of 0.463 inches) the transition region, as shown in Figure 1. Two slightly different star geometries are considered, as shown on Section A2 in Figure 1 and labeled I and II. Due to geometrical symmetry, as noted in Figure 1, and to the symmetry of the loading conditions to be considered, it was only necessary to model a 45° segment of the grain cross-section in the analysis.

III. FINITE ELEMENT MODELING

The finite element modeling of the transition region of Figure 1 will be discussed in detail and specific reference will be made to the TEXGAP-3D user's manual (Reference 2).

A. Grid Generation

The three-dimensional finite element grid system for the transition region was generated using a BLOCK command (Reference 2) to create a three-dimensional block region, such as that shown in Figure 2, the edges of which may be defined by a cubic interpolation. This permits a high degree of definition of curved boundaries. The eight corner points must be input, as per Reference 2, while points 9 through 32 (see Figure 2) not specified are located automatically by linear interpolation between corners. As many blocks as are necessary to accurately define a region may be generated.

B. Element Generation

The three-dimensional isoparametric 20 node brick element shown in Figure 3 was used in this analysis. As many bricks as are desired may be generated to fill the previously developed block(s). These elements are generated by a BRICK or BRICKH command (Reference 2). The BRICKH command employs a reformulated element (Reference 3) which takes into account near incompressibility (Poisson's ratio approaching 0.5). In this analysis the propellent grain elements were generated with a BRICKH command and the case elements were generated with a BRICK command. For both analysis models I and II, initially 16 propellant elements and 8 case elements were generated, as can be noted in Figures 4 and 5. The result of subsequent "rezoning" can also be noted in Figures 4 and 5, and this subject will be discussed a little further along in the report.

C. Boundary Conditions

Boundary conditions may be applied to element faces and/or element nodes. This is done through various commands, such as PRESSURE, SLOPE, etc. (Reference 2), along with a face number or node number (see Figure 3) designation. Various boundary condition commands were utilized in this analysis, and of particular importance were those displacement boundary conditions, taken from previous two-dimensional analyses (see Figure 6), which were applied at each end of the transition region. These will be mentioned relative to each of the separate analyses to be presented.

D. Post Processing

Various post processing commands may be utilized to compute stresses, strains and displacements at different points in an element. Some of these commands will be demonstrated when each of the separate analyses is presented.

E. Rezoning

The REZONE command (Reference 2) allows one to subdivide a coarse grid region of elements, for which a solution has been obtained, into a region of smaller elements, and thereby obtain a more accurate solution. A REPOS command (Reference 2) allows one to reposition nodal points when a better geometry definition is desired in a rezone analysis. The REZONE command was employed in this alalysis and the rezoned regions can be observed in Figures 4 and 5.

MODEL I

The finite element model I is shown in Figure 4. It was analyzed for both pressure and thermal loading. The TEXGAP-3D computer input and output is shown on the following pages.

Pressure Loading - Firing at -53°C (-65°F)

Propellant	Case
E_p = 1.31 x 10^7Pa (19,000 psi)	E_c = 2.07 x 10^{10}Pa
ν_p = 0.499	ν_c = 0.3

pressure = 1425 psi (9.83 x 10^5Pa)
Corresponding end displacements are shown on computer input and referenced to Figure 6.

Thermal Loading (2 Weeks Storage at -53°C (-65°F))

Propellant	Case
E_p = 4.82 x 10^5Pa (700 psi)	E_c = 2.07 x 10^{10}Pa (3 x 10 psi)
ν_p = 0.499	ν_c = 0.3
α_p = 0.00089 in/in/°F	

T_o = 60°C (140°F)
Corresponding end displacements are shown on computer input and referenced to Figure 6.

The results of three analyses on Model I are shown on the following computer output sheets:

1) pressure loading with two sequential rezoning computations, without any repositioning of element nodal points;

2) pressure loading with two sequential rezoning computations, with repositioning of some boundary element nodal points;

3) thermal loading with two sequential rezoning computations, without any repositioning of element nodal points.

The first analysis, with rezoning near the cylindrical bore end of the transition (see Figure 4), yielded a maximum strain of 0.0231 in element 113 (IJK). The second analysis, with rezoning and repositioning near the star end of the transition, yielded a maximum strain of 0.0594 in element 339. The third analysis, with rezoning near the cylindrical bore end, yielded a maximum strain of 0.200 in element 333.

The following results consist of the full computer output for the first analysis (for element orientation purposes, in the interest of the reader), and abbreviated output for the second and third analyses. The first analysis is contained on pages 8 thru 94, the second on pages 95 thru 102, and the third on pages 103 thru 108.

```
LINE   DIRECT LIST OF INPUT DATA

   1 $FINOCYL - STAR TO CYLINDRICAL BORE TRANSITION (I)
   2 SETUP,4,PRESCRIB
   3 ISO,PROPELLANT,1,1.9E4,,499
   4 ISO,CASE,2,3.E7,,3
   5 END,MATERIALS
   6 BLOCK-C,1, 1,1,1, 5,5,3, 7,,5    $ PROPELLANT NODES
   7 .94,0,0, 2.447,0,0, 1.730,1.730,0, .665,,665,0/
   8 .94,0,,463, 2.447,0,,463, 1.730,1.730,,463, .665,,665,,463
   9 10,2.430,,651,0, 12,,814,,470,0, 18,2.430,,651,,463, 20,,814,,470,,463/
  10 22,2.180,1.258,0, 24,,908,,243,0, 30,2.180,1.258,,463, 32,,908,,243,,463
  11 BLOCK-C,1, 1,1,3, 5,5,7,  7,,5    $ PROPELLANT NODES
  12 .94,0,,463, 2.447,0,,463, 1.730,1.730,,463, .665,,665,,463/
  13 2.145,0,1.942, 2.447,0,1.942, 1.730,1.730,1.942, .665,,665,1.942
  14 10,2.430,,651,,463, 12,,814,,470,,463, 13,1.31,0,,973/
  15 18,2.430,,651,1.942, 20,1.15,,33,1.942, 22,2.180,1.258,,463/
  16 24,,907,,243,,463, 25,1.775,0,1.432, 30,2.180,1.258,1.942/
  17 32,1.75,,33,1.942
  18 BLOCK-C,1, 1,1,7, 5,5,9, 7,,5    $ PROPELLANT NODES
  19 2.145,0,1.942, 2.447,0,1.942, 1.730,1.730,1.942, .665,,665,1.942/
  20 2.145,0,2.405, 2.447,0,2.405, 1.730,1.730,2.405, .665,,665,2.405
  21 10,2.430,,651,1.942, 12,1.15,,33,1.942, 18,2.430,,651,2.405, 20,1.15,,33,2.405/
  22 22,2.180,1.258,1.942, 24,1.75,,33,1.942, 30,2.18,1.258,2.485, 32,1.75,,33,2.485
  23 BLOCK,2, 5,1,1, 7,5,3    $ CASE NODES
  24 2.447,0,0,2.917,0,0,2.917,45,0,2.447,45,0/
  25 2.447,0,,463,2.517,0,,463,2.517,45,,463,2.447,45,,463
  26 BLOCK,2, 5,1,3, 7,5,7    $ CASE NODES
  27 2.447,0,,463,2.517,0,,463,2.517,45,,463,2.447,45,,463/
  28 2.447,0,1.942,2.517,0,1.942,2.517,45,1.942,2.447,45,1.942
  29 BLOCK,2, 5,1,7, 7,5,9    $ CASE NODES
  30 2.447,0,1.942,2.517,0,1.942,2.517,45,1.942,2.447,45,1.942/
  31 2.447,0,2.405,2.517,0,2.405,2.517,45,2.405,2.447,45,2.405
  32 END,GRID
  33 KLOOP,4
  34 ILOOP,2
  35 JLOOP,2
  36 BRICKM,1, 1,1,1    $ PROPELLANT ELEMENTS
  37 JEND
  38 IEND
  39 KEND
  40 KLOOP,4
  41 JLOOP,2
  42 BRICK,2, 5,1,1    $ CASE ELEMENTS
  43 JEND
  44 KEND
  45 KLOOP,4
  46 ILOOP,3
  47 BC,SLOPE,1,1,1, 5    $  0 DEGREE FACE
  48 BC,SLOPE,1,3,1, 2    $ 45 DEGREES FACE
  49 IEND
  50 KEND
  51 JLOOP,2
  52 BC,SLOPE,5,1,1, 6    $ END OF CASE
  53 JEND
  54 KLOOP,4
  55 JLOOP,2
  56 BC,PRESSURE, 1,1,1, 4,1.425E3    $ 1425 PSI PRESSURE
  57 JEND
  58 KEND
  59 BC,UZ,1,1,1, 0,-2.184E-2
  60 BC,UZ,1,2,1, 0,-2.184E-2
  61 BC,UZ,1,3,1, 0,-2.184E-2
```

```
 62 BC,UZ,1,3,1, 0,-2.184E-2
 63 BC,UZ,1,4,1, 0,-2.184E-2
 64 BC,UZ,2,1,1, 0,-1.638E-2
 65 BC,UZ,2,3,1, 0,-1.638E-2
 66 BC,UZ,2,5,1, 0,-1.638E-2
 67 BC,UZ,3,1,1, 0,-1.092E-2
 68 BC,UZ,3,2,1, 0,-1.092E-2
 69 BC,UZ,3,3,1, 0,-1.092E-2
 70 BC,UZ,3,4,1, 0,-1.092E-2
 71 BC,UZ,3,5,1, 0,-1.092E-2
 72 BC,UZ,4,1,1, 0,-0.546E-2
 73 BC,UZ,4,3,1, 0,-0.546E-2
 74 BC,UZ,4,5,1, 0,-0.546E-2
 75 BC,UZ,5,1,1, 0.0,
 76 BC,UZ,5,2,1, 0.0,
 77 BC,UZ,5,3,1, 0.0,
 78 BC,UZ,5,4,1, 0.0,
 79 BC,UZ,5,5,1, 0.0,
 80 BC,UZ,1,1,9, 0,-.215E-2
 81 BC,UZ,1,2,9, 0,-.268E-2
 82 BC,UZ,1,3,9, 0,-.347E-2
 83 BC,UZ,1,4,9, 0,-.435E-2
 84 BC,UZ,1,5,9, 0,-.462E-2
 85 BC,UZ,2,1,9, 0,-.200E-2
 86 BC,UZ,2,3,9, 0,-.296E-2
 87 BC,UZ,2,5,9, 0,-.384E-2
 88 BC,UZ,3,1,9, 0,-.184E-2
 89 BC,UZ,3,2,9, 0,-.208E-2
 90 BC,UZ,3,3,9, 0,-.257E-2
 91 BC,UZ,3,4,9, 0,-.317E-2
 92 BC,UZ,3,5,9, 0,-.341E-2
 93 BC,UZ,4,1,9, 0,-.168E-2
 94 BC,UZ,4,3,9, 0,-.199E-2
 95 BC,UZ,4,5,9, 0,-.230E-2
 96 BC,UZ,5,1,9, 0,-.153E-2
 97 BC,UZ,5,2,9, 0,-.153E-2
 98 BC,UZ,5,3,9, 0,-.153E-2
 99 BC,UZ,5,4,9, 0,-.153E-2
100 BC,UZ,5,5,9, 0,-.153E-2
101 END,ELEMENTS
102 SOLVE
103 POST
104 BLOCK
105 OPTION,2
106 END,POST
107 REZONE,1,1,3, 3,3,5
108 REFINE,GRADS,1,1,3, 2,2,2
109 BCR,REZONE,1,1,3, 2,2,2,2,2,2, 1,1,3
110 END,CONTROL
111 SOLVE
112 POST
113 BLOCK
114 OPTION,2
115 END,POST
116 REZONE,1,1,3, 3,3,5
117 REFINE,GRADS,1,1,3, 2,2,2
118 BCR,REZONE,1,1,3, 2,2,2,2,2,2, 1,1,3
119 END,CONTROL
120 SOLVE
121 POST
122 BLOCK
123 OPTION,2
124 END,POST
125 STOP

TIME IN FELOSA     =       .872 SECONDS
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FINOCYL - STAR TO CYLINDRICAL BORE TRANSITION (I)

MATERIAL PROPERTIES BY TYPES

ISOTROPIC MATERIALS

NO	MATERIAL	E	NU	ALPHA	RHO
1	PROPELLANT	.100E+09	.499E+00	0.	0.
2	CASE	.300E+08	.300E+00	0.	0.

GRADIENTS FOR NEXT BLOCK GENERATION

G(1) =	.100E+01	G(2) =	.100E+01
G(3) =	.100E+01	G(4) =	.100E+01
G(5) =	.100E+01	G(6) =	.100E+01
G(7) =	.900E+00	G(8) =	.100E+01
G(9) =	.100E+01	G(10) =	.100E+01
G(11) =	.100E+01	G(12) =	.100E+01

MESH GENERATION BLOCK-C IN CARTESIAN COORDINATE SYSTEM 1
FROM I J K 1 1 1 TO I J K 5 5 3

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
1	1	1	.9400E+00	0.	0.	1	1	2	.9400E+00	0.	.2315E+00
1	1	3	.9400E+00	0.	.4630E+00	1	2	1	.9221E+00	.1831E+00	0.
1	2	2	.9221E+00	.1831E+00	.2315E+00	1	2	3	.9221E+00	.1831E+00	.4630E+00
1	3	1	.8683E+00	.3595E+00	0.	1	3	2	.8683E+00	.3595E+00	.2315E+00
1	3	3	.8683E+00	.3595E+00	.4630E+00	1	4	1	.7816E+00	.5224E+00	0.
1	4	2	.7816E+00	.5224E+00	.2315E+00	1	4	3	.7816E+00	.5224E+00	.4630E+00
1	5	1	.6650E+00	.6650E+00	0.	1	5	2	.6650E+00	.6650E+00	.2315E+00
1	5	3	.6650E+00	.6650E+00	.4630E+00	2	1	1	.1317E+01	0.	0.
2	1	2	.1317E+01	0.	.2315E+00	2	1	3	.1317E+01	0.	.4630E+00
2	2	1	.1306E+01	.2595E+00	0.	2	2	2	.1293E+01	.2569E+00	.2315E+00
2	2	3	.1276E+01	.2535E+00	.4630E+00	2	3	1	.1234E+01	.2511E+00	0.
2	3	2	.1209E+01	.5055E+00	.2315E+00	2	3	3	.1176E+01	.4871E+00	.4630E+00
2	4	1	.1107E+01	.7398E+00	0.	2	4	2	.1074E+01	.7172E+00	.2315E+00
2	4	3	.1030E+01	.6883E+00	.4630E+00	2	5	1	.9312E+00	.9312E+00	0.
2	5	2	.8943E+00	.8943E+00	.2315E+00	2	5	3	.8471E+00	.8471E+00	.4630E+00
3	1	1	.1694E+01	0.	0.	3	1	2	.1694E+01	0.	.2315E+00
3	1	3	.1694E+01	0.	.4630E+00	3	2	1	.1690E+01	.3360E+00	0.
3	2	2	.1671E+01	.3323E+00	.2315E+00	3	2	3	.1646E+01	.3273E+00	.4630E+00
3	3	1	.1600E+01	.6626E+00	0.	3	3	2	.1565E+01	.6481E+00	.2315E+00
3	3	3	.1517E+01	.6282E+00	.4630E+00	3	4	1	.1433E+01	.9573E+00	0.
3	4	2	.1387E+01	.9261E+00	.2315E+00	3	4	3	.1322E+01	.8832E+00	.4630E+00
3	5	1	.1198E+01	.1198E+01	0.	3	5	2	.1147E+01	.1147E+01	.2315E+00
3	5	3	.1077E+01	.1077E+01	.4630E+00	4	1	1	.2070E+01	0.	0.
4	1	2	.2070E+01	0.	.2315E+00	4	1	3	.2070E+01	0.	.4630E+00
4	2	1	.2074E+01	.4124E+00	0.	4	2	2	.2059E+01	.4096E+00	.2315E+00
4	2	3	.2038E+01	.4054E+00	.4630E+00	4	3	1	.1966E+01	.8141E+00	0.
4	3	2	.1939E+01	.8329E+00	.2315E+00	4	3	3	.1899E+01	.7862E+00	.4630E+00
4	4	1	.1759E+01	.1175E+01	0.	4	4	2	.1723E+01	.1151E+01	.2315E+00
4	4	3	.1669E+01	.1115E+01	.4630E+00	4	5	1	.1464E+01	.1464E+01	0.
4	5	2	.1424E+01	.1424E+01	.2315E+00	4	5	3	.1366E+01	.1366E+01	.4630E+00
5	1	1	.2447E+01	0.	0.	5	1	2	.2447E+01	0.	.2315E+00
5	1	3	.2447E+01	0.	.4630E+00	5	2	1	.2457E+01	.4888E+00	0.
5	2	2	.2457E+01	.4888E+00	.2315E+00	5	2	3	.2457E+01	.4888E+00	.4630E+00
5	3	1	.2332E+01	.9557E+00	0.	5	3	2	.2332E+01	.9557E+00	.2315E+00
5	3	3	.2332E+01	.9557E+00	.4630E+00	5	4	1	.2085E+01	.1392E+01	0.
5	4	2	.2085E+01	.1392E+01	.2315E+00	5	4	3	.2085E+01	.1392E+01	.4630E+00
5	5	1	.1730E+01	.1730E+01	0.	5	5	2	.1730E+01	.1730E+01	.2315E+00
5	5	3	.1730E+01	.1730E+01	.4630E+00						

GRADIENTS FOR NEXT BLOCK GENERATION

G(1) =	.100E+01	G(2) =	.100E+01
G(3) =	.100E+01	G(4) =	.100E+01
G(5) =	.100E+01	G(6) =	.100E+01
G(7) =	.500E+00	G(8) =	.100E+01
G(9) =	.100E+01	G(10) =	.100E+01
G(11) =	.100E+01	G(12) =	.100E+01

MESH GENERATION BLOCK-C IN CARTESIAN COORDINATE SYSTEM 1
FROM I J K 1 1 3 TO I J K 5 5 7

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
1	1	3	.9400E+00	0.	.4630E+00	1	1	4	.1281E+01	0.	.8543E+00
1	1	5	.1543E+01	0.	.1203E+01	1	1	6	.1884E+01	0.	.1551E+01
1	1	7	.2149E+01	0.	.1942E+01	1	2	3	.9210E+00	.1831E+00	.4630E+00
1	2	4	.1131E+01	.2134E+00	.8489E+00	1	2	5	.1481E+01	.2438E+00	.1203E+01
1	2	6	.1871E+01	.2741E+00	.1556E+01	1	2	7	.1888E+01	.3844E+00	.1942E+01
1	3	3	.8677E+00	.3595E+00	.4630E+00	1	3	4	.9947E+00	.3520E+00	.8435E+00
1	3	5	.1162E+01	.3446E+00	.1203E+01	1	3	6	.1329E+01	.3371E+00	.1561E+01
1	3	7	.1456E+01	.3297E+00	.1942E+01	1	4	3	.7818E+00	.5224E+00	.4630E+00
1	4	4	.8277E+00	.4809E+00	.8381E+00	1	4	5	.8937E+00	.4394E+00	.1203E+01
1	4	6	.9596E+00	.3979E+00	.1567E+01	1	4	7	.1005E+01	.3564E+00	.1942E+01
1	5	3	.6650E+00	.6650E+00	.4630E+00	1	5	4	.6650E+00	.6650E+00	.8328E+00
1	5	5	.6650E+00	.6650E+00	.1203E+01	1	5	6	.6650E+00	.6650E+00	.1572E+01
1	5	7	.6650E+00	.6650E+00	.1942E+01	2	1	3	.1317E+01	0.	.4630E+00
2	1	4	.1513E+01	0.	.8489E+00	2	1	5	.1769E+01	0.	.1203E+01
2	1	6	.2029E+01	0.	.1556E+01	2	1	7	.2221E+01	0.	.1942E+01
2	2	3	.1305E+01	.2595E+00	.4630E+00	2	2	4	.1457E+01	.2812E+00	.8449E+00
2	2	5	.1656E+01	.3029E+00	.1203E+01	2	2	6	.1856E+01	.3248E+00	.1568E+01
2	2	7	.2013E+01	.3469E+00	.1942E+01	2	3	3	.1234E+01	.5110E+00	.4630E+00
2	3	4	.1318E+01	.5104E+00	.8409E+00	2	3	5	.1434E+01	.4891E+00	.1203E+01
2	3	6	.1552E+01	.4769E+00	.1564E+01	2	3	7	.1640E+01	.4636E+00	.1942E+01
2	4	3	.1108E+01	.7398E+00	.4630E+00	2	4	4	.1127E+01	.6975E+00	.8309E+00
2	4	5	.1160E+01	.6578E+00	.1203E+01	2	4	6	.1194E+01	.6852E+00	.1568E+01
2	4	7	.1211E+01	.5540E+00	.1942E+01	2	5	3	.9312E+00	.9312E+00	.4639E+00
2	5	4	.9137E+00	.9137E+00	.8327E+00	2	5	5	.8943E+00	.8943E+00	.1203E+01
2	5	6	.8723E+00	.8723E+00	.1572E+01	2	5	7	.8471E+00	.8471E+00	.1942E+01
3	1	3	.1694E+01	0.	.4630E+00	3	1	4	.1824E+01	0.	.8435E+00
3	1	5	.1995E+01	0.	.1203E+01	3	1	6	.2109E+01	0.	.1901E+01
3	1	7	.2296E+01	0.	.1942E+01	3	2	3	.1669E+01	.3360E+00	.4630E+00
3	2	4	.1787E+01	.3496E+00	.8409E+00	3	2	5	.1916E+01	.3634E+00	.1203E+01
3	2	6	.2049E+01	.3773E+00	.1564E+01	3	2	7	.2153E+01	.3914E+00	.1942E+01
3	3	3	.1600E+01	.6626E+00	.4630E+00	3	3	4	.1648E+01	.6520E+00	.8382E+00
3	3	5	.1719E+01	.6403E+00	.1203E+01	3	3	6	.1791E+01	.6270E+00	.1566E+01
3	3	7	.1844E+01	.6116E+00	.1942E+01	3	4	3	.1433E+01	.9573E+00	.4639E+00
3	4	4	.1435E+01	.9213E+00	.8355E+00	3	4	5	.1447E+01	.8816E+00	.1203E+01
3	4	6	.1457E+01	.8371E+00	.1569E+01	3	4	7	.1453E+01	.7861E+00	.1942E+01
3	5	3	.1198E+01	.1198E+01	.4630E+00	3	5	4	.1174E+01	.1174E+01	.8327E+00
3	5	5	.1147E+01	.1147E+01	.1203E+01	3	5	6	.1115E+01	.1115E+01	.1572E+01
3	5	7	.1077E+01	.1077E+01	.1942E+01	4	1	3	.2070E+01	0.	.4630E+00
4	1	4	.2136E+01	0.	.8381E+00	4	1	5	.2221E+01	0.	.1203E+01
4	1	6	.2306E+01	0.	.1567E+01	4	1	7	.2372E+01	0.	.1942E+01
4	2	3	.2073E+01	.4124E+00	.4630E+00	4	2	4	.2120E+01	.4188E+00	.8369E+00

MESH GENERATION BLOCK-C IN CARTESIAN COORDINATE SYSTEM 1
FROM I J K 1 1 3 TO I J K 5 5 7

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
4	2	5	.2183E+01	.4293E+00	.1203E+01	4	2	6	.2249E+01	.4310E+00	.1568E+01
4	2	7	.2308E+01	.4385E+00	.1942E+01	4	3	3	.1966E+01	.8141E+00	.4639E+00
4	3	4	.1986E+01	.8371E+00	.8355E+00	4	3	5	.2018E+01	.7989E+00	.1203E+01
4	3	6	.2050E+01	.7892E+00	.1569E+01	4	3	7	.2073E+01	.7774E+00	.1942E+01
4	4	3	.1759E+01	.1175E+01	.4630E+00	4	4	4	.1755E+01	.1153E+01	.8342E+00
4	4	4	.1796E+01	.1129E+01	.1203E+01	4	4	6	.1792E+01	.1090E+01	.1571E+01
4	4	7	.1741E+01	.1062E+01	.1942E+01	4	5	3	.1464E+01	.1464E+01	.4630E+00
4	5	4	.1446E+01	.1446E+01	.8327E+00	4	5	5	.1424E+01	.1424E+01	.1203E+01
4	5	6	.1398E+01	.1398E+01	.1572E+01	4	5	7	.1366E+01	.1366E+01	.1942E+01
5	1	3	.2447E+01	0.	.4630E+00	5	1	4	.2447E+01	0.	.8328E+00
5	1	5	.2447E+01	0.	.1203E+01	5	1	6	.2447E+01	0.	.1572E+01
5	1	7	.2447E+01	0.	.1942E+01	5	2	3	.2457E+01	.4888E+00	.4630E+00
5	2	4	.2457E+01	.4888E+00	.8327E+00	5	2	5	.2457E+01	.4888E+00	.1203E+01
5	2	6	.2457E+01	.4888E+00	.1572E+01	5	2	7	.2457E+01	.4888E+00	.1942E+01
5	3	3	.2332E+01	.9657E+00	.4630E+00	5	3	4	.2332E+01	.9657E+00	.8328E+00
5	3	5	.2332E+01	.9657E+00	.1203E+01	5	3	6	.2332E+01	.9657E+00	.1572E+01
5	3	7	.2332E+01	.9657E+00	.1942E+01	5	4	3	.2085E+01	.1392E+01	.4639E+00
5	4	4	.2085E+01	.1392E+01	.8328E+00	5	4	5	.2085E+01	.1392E+01	.1203E+01
5	4	6	.2085E+01	.1392E+01	.1572E+01	5	4	7	.2085E+01	.1392E+01	.1942E+01
5	5	3	.1730E+01	.1730E+01	.4630E+00	5	5	4	.1730E+01	.1730E+01	.8329E+00
5	5	5	.1730E+01	.1730E+01	.1203E+01	5	5	6	.1730E+01	.1730E+01	.1572E+01
5	5	7	.1730E+01	.1730E+01	.1942E+01						

GRADIENTS FOR NEXT BLOCK GENERATION

G(1) =	.100E+01	G(2) =	.100E+01
G(3) =	.100E+01	G(4) =	.100E+01
G(5) =	.100E+01	G(6) =	.100E+01
G(7) =	.500E+00	G(8) =	.100E+01
G(9) =	.100E+01	G(10) =	.100E+01
G(11) =	.100E+01	G(12) =	.100E+01

MESH GENERATION BLOCK-C IN CARTESIAN COORDINATE SYSTEM 1
FROM I J K 1 1 7 TO I J K 5 5 9

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
1	1	7	.2145E+01	0.	.1942E+01	1	1	8	.2145E+01	0.	.2174E+01
1	1	9	.2145E+01	0.	.2405E+01	1	2	7	.1880E+01	.3044E+00	.1942E+01
1	2	8	.1880E+01	.3044E+00	.2174E+01	1	2	9	.1880E+01	.3044E+00	.2405E+01
1	3	7	.1456E+01	.3297E+00	.1942E+01	1	3	8	.1456E+01	.3297E+00	.2174E+01
1	3	9	.1456E+01	.3297E+00	.2405E+01	1	4	7	.1005E+01	.3564E+00	.1942E+01
1	4	8	.1005E+01	.3564E+00	.2174E+01	1	4	9	.1005E+01	.3564E+00	.2405E+01
1	5	7	.6650E+00	.6550E+00	.1942E+01	1	5	8	.6650E+00	.6650E+00	.2174E+01
1	5	9	.6650E+00	.6550E+00	.2405E+01	2	1	7	.2221E+01	0.	.1942E+01
2	1	8	.2221E+01	0.	.2174E+01	2	1	9	.2221E+01	0.	.2405E+01
2	2	7	.2025E+01	.3505E+00	.1942E+01	2	2	8	.2028E+01	.3489E+00	.2174E+01
2	2	9	.2013E+01	.3469E+00	.2405E+01	2	3	7	.1675E+01	.4887E+00	.1942E+01
2	3	8	.1660E+01	.4776E+00	.2174E+01	2	3	9	.1640E+01	.4636E+00	.2405E+01
2	4	7	.1275E+01	.6153E+00	.1942E+01	2	4	8	.1247E+01	.5883E+00	.2174E+01

MESH GENERATION BLOCK-C IN CARTESIAN COORDINATE SYSTEM 1
FROM I J K 1 1 7 TO I J K 5 5 9

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
2	4	9	.1211E+01	.5548E+00	.2405E+01	2	5	7	.9312E+00	.9312E+00	.1942E+01
2	5	8	.8943E+00	.8943E+00	.2174E+01	2	5	9	.8471E+00	.8471E+00	.2405E+01
3	1	7	.2296E+01	0.	.1942E+01	3	1	8	.2296E+01	0.	.2174E+01
3	1	9	.2296E+01	0.	.2405E+01	3	2	7	.2169E+01	.5966E+00	.1942E+01
3	2	8	.2162E+01	.3944E+00	.2174E+01	3	2	9	.2153E+01	.3914E+00	.2405E+01
3	3	7	.1894E+01	.6477E+00	.1942E+01	3	3	8	.1873E+01	.6329E+00	.2174E+01
3	3	9	.1844E+01	.6116E+00	.2405E+01	3	4	7	.1545E+01	.8743E+00	.1942E+01
3	4	8	.1507E+01	.8372E+00	.2174E+01	3	4	9	.1453E+01	.7861E+00	.2405E+01
3	5	7	.1198E+01	.1198E+01	.1942E+01	3	5	8	.1147E+01	.1147E+01	.2174E+01
3	5	9	.1077E+01	.1077E+01	.2405E+01	4	1	7	.2372E+01	0.	.1942E+01
4	1	8	.2372E+01	0.	.2174E+01	4	1	9	.2372E+01	0.	.2405E+01
4	2	7	.2313E+01	.4427E+00	.1942E+01	4	2	8	.2308E+01	.4410E+00	.2174E+01
4	2	9	.2300E+01	.4385E+00	.2405E+01	4	3	7	.2113E+01	.8867E+00	.1942E+01
4	3	8	.2097E+01	.7949E+00	.2174E+01	4	3	9	.2073E+01	.7774E+00	.2405E+01
4	4	7	.1815E+01	.1133E+01	.1942E+01	4	4	8	.1785E+01	.1184E+01	.2174E+01
4	4	9	.1741E+01	.1062E+01	.2405E+01	4	5	7	.1464E+01	.1464E+01	.1942E+01
4	5	8	.1424E+01	.1424E+01	.2174E+01	4	5	9	.1366E+01	.1366E+01	.2405E+01
5	1	7	.2447E+01	0.	.1942E+01	5	1	8	.2447E+01	0.	.2174E+01
5	1	9	.2447E+01	0.	.2405E+01	5	2	7	.2457E+01	.4888E+00	.1942E+01
5	2	8	.2457E+01	.4888E+00	.2174E+01	5	2	9	.2457E+01	.4888E+00	.2405E+01
5	3	7	.2332E+01	.9657E+00	.1942E+01	5	3	8	.2332E+01	.9657E+00	.2174E+01
5	3	9	.2332E+01	.9657E+00	.2405E+01	5	4	7	.2085E+01	.1392E+01	.1942E+01
5	4	8	.2085E+01	.1392E+01	.2174E+01	5	4	9	.2085E+01	.1392E+01	.2405E+01
5	5	7	.1730E+01	.1730E+01	.1942E+01	5	5	8	.1730E+01	.1730E+01	.2174E+01
5	5	9	.1730E+01	.1730E+01	.2405E+01						

GRADIENTS FOR NEXT BLOCK GENERATION

G(1) =	.100E+01	G(2) =	.100E+01
G(3) =	.100E+01	G(4) =	.100E+01
G(5) =	.100E+01	G(6) =	.100E+01
G(7) =	.100E+01	G(8) =	.100E+01
G(9) =	.100E+01	G(10) =	.100E+01
G(11) =	.100E+01	G(12) =	.100E+01

MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM 2
FROM I J K 5 1 1 TO I J K 7 5 3

GLOBAL CYLINDRICAL COORDINATES OF POINTS GENERATED

I	J	K	R	THETA	Z	I	J	K	R	THETA	Z
5	1	1	.2447E+01	0.	0.	5	1	2	.2447E+01	0.	.2319E+00
5	1	3	.2447E+01	0.	.4630E+00	5	2	1	.2447E+01	.1125E+02	0.
5	2	2	.2447E+01	.1125E+02	.2315E+00	5	2	3	.2447E+01	.1125E+02	.4630E+00
5	3	1	.2447E+01	.2250E+02	0.	5	3	2	.2447E+01	.2250E+02	.2315E+00
5	3	3	.2447E+01	.2250E+02	.4630E+00	5	4	1	.2447E+01	.3375E+02	0.
5	4	2	.2447E+01	.3375E+02	.2315E+00	5	4	3	.2447E+01	.3375E+02	.4630E+00
5	5	1	.2447E+01	.4500E+02	0.	5	5	2	.2447E+01	.4500E+02	.2319E+00
5	5	3	.2447E+01	.4500E+02	.4630E+00	6	1	1	.2482E+01	0.	0.
6	1	2	.2482E+01	0.	.2315E+00	6	1	3	.2482E+01	0.	.4630E+00
6	2	1	.2482E+01	.1125E+02	0.	6	2	2	.2482E+01	.1125E+02	.2315E+00

MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM 2
FROM I J K 5 1 1 TO I J K 7 5 3

GLOBAL CYLINDRICAL COORDINATES OF POINTS GENERATED

I	J	K	R	THETA	Z	I	J	K	R	THETA	Z
6	2	3	.2482E+01	.1125E+02	.463CE+00	6	3	1	.2482E+01	.2250E+02	0.
6	3	2	.2482E+01	.2250E+02	.2315E+00	6	3	3	.2482E+01	.2250E+02	.4630E+00
6	4	1	.2482E+01	.3375E+02	0.	6	4	2	.2482E+01	.3375E+02	.2315E+00
6	4	3	.2482E+01	.3375E+02	.4630E+00	6	5	1	.2482E+01	.4500E+02	0.
6	5	2	.2482E+01	.4500E+02	.2315E+00	6	5	3	.2482E+01	.4500E+02	.4630E+00
7	1	1	.2517E+01	0.	0.	7	1	2	.2517E+01	0.	.2315E+00
7	1	3	.2517E+01	0.	.4630E+00	7	2	1	.2517E+01	.1125E+02	0.
7	2	2	.2517E+01	.1125E+02	.2315E+00	7	2	3	.2517E+01	.1125E+02	.4630E+00
7	3	1	.2517E+01	.2250E+02	0.	7	3	2	.2517E+01	.2250E+02	.2315E+00
7	3	3	.2517E+01	.2250E+02	.4630E+00	7	4	1	.2517E+01	.3375E+02	0.
7	4	2	.2517E+01	.3375E+02	.2315E+00	7	4	3	.2517E+01	.3375E+02	.4630E+00
7	5	1	.2517E+01	.4500E+02	0.	7	5	2	.2517E+01	.4500E+02	.2315E+00
7	5	3	.2517E+01	.4500E+02	.463CE+00						

MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM 2
FROM I J K 5 1 1 TO I J K 7 5 3

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
5	1	1	.2447E+01	0.	0.	5	1	2	.2447E+01	0.	.2315E+00
5	1	3	.2447E+01	0.	.4630E+00	5	2	1	.2400E+01	.4774E+00	0.
5	2	2	.240CE+01	.4774E+00	.2315E+00	5	2	3	.2400E+01	.4774E+00	.4630E+00
5	3	1	.2261E+01	.9364E+00	0.	5	3	2	.2261E+01	.9364E+00	.2315E+00
5	3	3	.2261E+01	.9364E+00	.4630E+00	5	4	1	.2035E+01	.1359E+01	0.
5	4	2	.2035E+01	.1359E+01	.2315E+00	5	4	3	.2035E+01	.1359E+01	.4630E+00
5	5	1	.173CE+01	.1730E+01	0.	5	5	2	.1730E+01	.1730E+01	.2315E+00
5	5	3	.173GE+01	.1730E+01	.4630E+00	6	1	1	.2482E+01	0.	0.
6	1	2	.2482E+01	0.	.2315E+00	6	1	3	.2482E+01	0.	.4630E+00
6	2	1	.2434E+01	.4842E+00	0.	6	2	2	.2434E+01	.4842E+00	.2315E+00
6	2	3	.2434E+01	.4942E+00	.4630E+00	6	3	1	.2293E+01	.9498E+00	0.
6	3	2	.2293E+01	.9498E+00	.2315E+00	6	3	3	.2293E+01	.9498E+00	.4630E+00
6	4	1	.2064E+01	.1379E+01	0.	6	4	2	.2064E+01	.1379E+01	.2315E+00
6	4	3	.2064E+01	.1379E+01	.4630E+00	6	5	1	.1755E+01	.1755E+01	0.
6	5	2	.1755E+01	.1755E+01	.2315E+00	6	5	3	.1755E+01	.1755E+01	.4630E+00
7	1	1	.2517E+01	0.	0.	7	1	2	.2517E+01	0.	.2315E+00
7	1	3	.2517E+01	0.	.4630E+00	7	2	1	.2469E+01	.4910E+00	0.
7	2	2	.2469E+01	.4910E+00	.2315E+00	7	2	3	.2469E+01	.4910E+00	.4630E+00
7	3	1	.2325E+01	.9632E+00	0.	7	3	2	.2325E+01	.9632E+00	.2315E+00
7	3	3	.2325E+01	.9632E+00	.4630E+00	7	4	1	.2093E+01	.1398E+01	0.
7	4	2	.2093E+01	.1398E+01	.2315E+00	7	4	3	.2093E+01	.1398E+01	.4639E+00
7	5	1	.1780E+01	.1780E+01	0.	7	5	2	.1780E+01	.1780E+01	.2315E+00
7	5	3	.1780E+01	.1780E+01	.4630E+00						

GRADIENTS FOR NEXT BLOCK GENERATION

G(1) =	.100E+01	G(2) =	.100E+01
G(3) =	.100E+01	G(4) =	.100E+01
G(5) =	.100E+01	G(6) =	.100E+01
G(7) =	.100E+01	G(8) =	.100E+01
G(9) =	.100E+01	G(10) =	.100E+01
G(11) =	.100E+01	G(12) =	.100E+01

MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM Z
FROM I J K 5 1 3 TO I J K 7 5 7

GLOBAL CYLINDRICAL COORDINATES OF POINTS GENERATED

I	J	K	R	THETA	Z	I	J	K	R	THETA	Z
5	1	3	.2447E+01	0.	.4630E+00	5	1	4	.2447E+01	0.	.8328E+00
5	1	5	.2447E+01	0.	.1203E+01	5	1	6	.2447E+01	0.	.1572E+01
5	1	7	.2447E+01	0.	.1942E+01	5	2	3	.2447E+01	.1125E+02	.4630E+00
5	2	4	.2447E+01	.1125E+02	.8328E+00	5	2	5	.2447E+01	.1125E+02	.1203E+01
5	2	6	.2447E+01	.1125E+02	.1572E+01	5	2	7	.2447E+01	.1125E+02	.1942E+01
5	3	3	.2447E+01	.2250E+02	.4630E+00	5	3	4	.2447E+01	.2250E+02	.8328E+00
5	3	5	.2447E+01	.2250E+02	.1203E+01	5	3	6	.2447E+01	.2250E+02	.1572E+01
5	3	7	.2447E+01	.2250E+02	.1942E+01	5	4	3	.2447E+01	.3375E+02	.4630E+00
5	4	4	.2447E+01	.3879E+02	.8328E+00	5	4	5	.2447E+01	.3379E+02	.1203E+01
5	4	6	.2447E+01	.3375E+02	.1572E+01	5	4	7	.2447E+01	.3375E+02	.1942E+01
5	5	3	.2447E+01	.4500E+02	.4630E+00	5	5	4	.2447E+01	.4500E+02	.8328E+00
5	5	5	.2447E+01	.4500E+02	.1203E+01	5	5	6	.2447E+01	.4500E+02	.1572E+01
5	5	7	.2447E+01	.4500E+02	.1942E+01	6	1	3	.2482E+01	0.	.4630E+00
6	1	4	.2482E+01	0.	.8328E+00	6	1	5	.2482E+01	0.	.1203E+01
6	1	6	.2482E+01	0.	.1572E+01	6	1	7	.2482E+01	0.	.1942E+01
6	2	3	.2482E+01	.1125E+02	.4630E+00	6	2	4	.2482E+01	.1125E+02	.8327E+00
6	2	5	.2482E+01	.1125E+02	.1203E+01	6	2	6	.2482E+01	.1125E+02	.1572E+01
6	2	7	.2482E+01	.1125E+02	.1942E+01	6	3	3	.2482E+01	.2250E+02	.4631E+00
6	3	4	.2482E+01	.2250E+02	.8327E+00	6	3	5	.2482E+01	.2250E+02	.1203E+01
6	3	6	.2482E+01	.2250E+02	.1572E+01	6	3	7	.2482E+01	.2250E+02	.1942E+01
6	4	3	.2482E+01	.3375E+02	.4630E+00	6	4	4	.2482E+01	.3379E+02	.8327E+00
6	4	5	.2482E+01	.3375E+02	.1203E+01	6	4	6	.2482E+01	.3375E+02	.1572E+01
6	4	7	.2482E+01	.3375E+02	.1942E+01	6	5	3	.2482E+01	.4500E+02	.4630E+00
6	5	4	.2482E+01	.4500E+02	.8328E+00	6	5	5	.2482E+01	.4500E+02	.1203E+01
6	5	6	.2482E+01	.4500E+02	.1572E+01	6	5	7	.2482E+01	.4500E+02	.1942E+01
7	1	3	.2517E+01	0.	.4630E+00	7	1	4	.2517E+01	0.	.8328E+00
7	1	5	.2517E+01	0.	.1203E+01	7	1	6	.2517E+01	0.	.1572E+01
7	1	7	.2517E+01	0.	.1942E+01	7	2	3	.2517E+01	.1125E+02	.4630E+00
7	2	4	.2517E+01	.1125E+02	.8328E+00	7	2	5	.2517E+01	.1125E+02	.1203E+01
7	2	6	.2517E+01	.1125E+02	.1572E+01	7	2	7	.2517E+01	.1125E+02	.1942E+01
7	3	3	.2517E+01	.2250E+02	.4630E+00	7	3	4	.2517E+01	.2250E+02	.8328E+00
7	3	5	.2517E+01	.2250E+02	.1203E+01	7	3	6	.2517E+01	.2250E+02	.1572E+01
7	3	7	.2517E+01	.2250E+02	.1942E+01	7	4	3	.2517E+01	.3375E+02	.4630E+00
7	4	4	.2517E+01	.3375E+02	.8328E+00	7	4	5	.2517E+01	.3375E+02	.1203E+01
7	4	6	.2517E+01	.3375E+02	.1572E+01	7	4	7	.2517E+01	.3375E+02	.1942E+01
7	5	3	.2517E+01	.4500E+02	.4630E+00	7	5	4	.2517E+01	.4500E+02	.8328E+00
7	5	5	.2517E+01	.4500E+02	.1203E+01	7	5	6	.2517E+01	.4500E+02	.1572E+01
7	5	7	.2517E+01	.4500E+02	.1942E+01						

MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM 2
FROM I J K 5 1 3 TO I J K 7 5 7

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z
5	1	3	.2447E+01	0.	.4630E+00
5	1	5	.2447E+01	0.	.1203E+01
5	1	7	.2447E+01	0.	.1942E+01
5	2	4	.2400E+01	.4774E+00	.8328E+00
5	2	6	.2400E+01	.4774E+00	.1572E+01
5	3	3	.2261E+01	.9364E+00	.4630E+00
5	3	5	.2261E+01	.9364E+00	.1203E+01
5	3	7	.2261E+01	.9364E+00	.1942E+01
5	4	4	.2035E+01	.1359E+01	.8328E+00
5	4	6	.2035E+01	.1359E+01	.1572E+01
5	5	3	.1730E+01	.1730E+01	.4630E+00
5	5	5	.1730E+01	.1730E+01	.1203E+01
5	5	7	.1730E+01	.1730E+01	.1942E+01
6	1	4	.2482E+01	0.	.8328E+00
6	1	6	.2482E+01	0.	.1572E+01
6	2	3	.2434E+01	.4842E+00	.4630E+00
6	2	5	.2434E+01	.4842E+00	.1203E+01
6	2	7	.2434E+01	.4842E+00	.1942E+01
6	3	4	.2293E+01	.9498E+00	.8327E+00
6	3	6	.2293E+01	.9498E+00	.1572E+01
6	4	3	.2064E+01	.1379E+01	.4630E+00
6	4	5	.2064E+01	.1379E+01	.1203E+01
6	4	7	.2064E+01	.1379E+01	.1942E+01
6	5	4	.1755E+01	.1755E+01	.8328E+00
6	5	6	.1755E+01	.1755E+01	.1572E+01
7	1	3	.2517E+01	0.	.4630E+00
7	1	5	.2517E+01	0.	.1203E+01
7	1	7	.2517E+01	0.	.1942E+01
7	2	4	.2469E+01	.4910E+00	.8328E+00
7	2	6	.2469E+01	.4910E+00	.1572E+01
7	3	3	.2325E+01	.9632E+00	.4630E+00
7	3	5	.2325E+01	.9632E+00	.1203E+01
7	3	7	.2325E+01	.9632E+00	.1942E+01
7	4	4	.2093E+01	.1398E+01	.8328E+00
7	4	6	.2093E+01	.1398E+01	.1572E+01
7	5	3	.1780E+01	.1780E+01	.4630E+00
7	5	5	.1780E+01	.1780E+01	.1203E+01
7	5	7	.1780E+01	.1780E+01	.1942E+01

I	J	K	X	Y	Z
5	1	4	.2447E+01	0.	.8329E+00
5	1	6	.2447E+01	0.	.1572E+01
5	2	3	.2400E+01	.4774E+00	.4630E+00
5	2	5	.2400E+01	.4774E+00	.1203E+01
5	2	7	.2400E+01	.4774E+00	.1942E+01
5	3	4	.2261E+01	.9364E+00	.8329E+00
5	3	6	.2261E+01	.9364E+00	.1572E+01
5	4	3	.2035E+01	.1359E+01	.4639E+00
5	4	5	.2035E+01	.1359E+01	.1203E+01
5	4	7	.2035E+01	.1359E+01	.1942E+01
5	5	4	.1730E+01	.1730E+01	.8328E+00
5	5	6	.1730E+01	.1730E+01	.1572E+01
6	1	3	.2482E+01	0.	.4630E+00
6	1	5	.2482E+01	0.	.1203E+01
6	1	7	.2482E+01	0.	.1942E+01
6	2	4	.2434E+01	.4842E+00	.8327E+00
6	2	6	.2434E+01	.4842E+00	.1572E+01
6	3	3	.2293E+01	.9498E+00	.4633E+00
6	3	5	.2293E+01	.9498E+00	.1203E+01
6	3	7	.2293E+01	.9498E+00	.1942E+01
6	4	4	.2064E+01	.1379E+01	.8327E+00
6	4	6	.2064E+01	.1379E+01	.1572E+01
6	5	3	.1755E+01	.1755E+01	.4630E+00
6	5	5	.1755E+01	.1755E+01	.1203E+01
6	5	7	.1755E+01	.1755E+01	.1942E+01
7	1	4	.2517E+01	0.	.8328E+00
7	1	6	.2517E+01	0.	.1572E+01
7	2	3	.2469E+01	.4910E+00	.4639E+00
7	2	5	.2469E+01	.4910E+00	.1203E+01
7	2	7	.2469E+01	.4910E+00	.1942E+01
7	3	4	.2325E+01	.9632E+00	.8328E+00
7	3	6	.2325E+01	.9632E+00	.1572E+01
7	4	3	.2093E+01	.1398E+01	.4633E+00
7	4	5	.2093E+01	.1398E+01	.1203E+01
7	4	7	.2093E+01	.1398E+01	.1942E+01
7	5	4	.1780E+01	.1780E+01	.8328E+00
7	5	6	.1780E+01	.1780E+01	.1572E+01

GRADIENTS FOR NEXT BLOCK GENERATION

G(1) =	.100E+01	G(2) =	.100E+01
G(3) =	.100E+01	G(4) =	.100E+01
G(5) =	.100E+01	G(6) =	.100E+01
G(7) =	.100E+01	G(8) =	.100E+01
G(9) =	.100E+01	G(10) =	.100E+01
G(11) =	.100E+01	G(12) =	.100E+01

MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM 2
FROM I J K 5 1 7 TO I J K 7 5 9

GLOBAL CYLINDRICAL COORDINATES OF POINTS GENERATED

I	J	K	R	THETA	Z	I	J	K	R	THETA	Z
5	1	7	.2447E+01	0.	.1942E+01	5	1	8	.2447E+01	0.	.2174E+01
5	1	9	.2447E+01	0.	.2405E+01	5	2	7	.2447E+01	.1125E+02	.1942E+01
5	2	8	.2447E+01	.1125E+02	.2174E+01	5	2	9	.2447E+01	.1125E+02	.2405E+01
5	3	7	.2447E+01	.2250E+02	.1942E+01	5	3	8	.2447E+01	.2250E+02	.2174E+01
5	3	9	.2447E+01	.2250E+02	.2405E+01	5	4	7	.2447E+01	.3375E+02	.1942E+01
5	4	8	.2447E+01	.3375E+02	.2174E+01	5	4	9	.2447E+01	.3375E+02	.2405E+01
5	5	7	.2447E+01	.4500E+02	.1942E+01	5	5	8	.2447E+01	.4500E+02	.2174E+01
5	5	9	.2447E+01	.4500E+02	.2405E+01	6	1	7	.2482E+01	0.	.1942E+01
6	1	8	.2482E+01	0.	.2174E+01	6	1	9	.2482E+01	0.	.2405E+01
6	2	7	.2482E+01	.1125E+02	.1942E+01	6	2	8	.2482E+01	.1125E+02	.2174E+01
6	2	9	.2482E+01	.1125E+02	.2405E+01	6	3	7	.2482E+01	.2250E+02	.1942E+01
6	3	8	.2482E+01	.2250E+02	.2174E+01	6	3	9	.2482E+01	.2250E+02	.2405E+01
6	4	7	.2482E+01	.3375E+02	.1942E+01	6	4	8	.2482E+01	.3375E+02	.2174E+01
6	4	9	.2482E+01	.3375E+02	.2405E+01	6	5	7	.2482E+01	.4500E+02	.1942E+01
6	5	8	.2482E+01	.4500E+02	.2174E+01	6	5	9	.2482E+01	.4500E+02	.2405E+01
7	1	7	.2517E+01	0.	.1942E+01	7	1	8	.2517E+01	0.	.2174E+01
7	1	9	.2517E+01	0.	.2405E+01	7	2	7	.2517E+01	.1125E+02	.1942E+01
7	2	8	.2517E+01	.1125E+02	.2174E+01	7	2	9	.2517E+01	.1125E+02	.2405E+01
7	3	7	.2517E+01	.2250E+02	.1942E+01	7	3	8	.2517E+01	.2250E+02	.2174E+01
7	3	9	.2517E+01	.2250E+02	.2405E+01	7	4	7	.2517E+01	.3375E+02	.1942E+01
7	4	8	.2517E+01	.3375E+02	.2174E+01	7	4	9	.2517E+01	.3375E+02	.2405E+01
7	5	7	.2517E+01	.4500E+02	.1942E+01	7	5	8	.2517E+01	.4500E+02	.2174E+01
7	5	9	.2517E+01	.4500E+02	.2405E+01						

MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM 2
FROM I J K 5 1 7 TO I J K 7 5 9

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
5	1	7	.2447E+01	0.	.1942E+01	5	1	8	.2447E+01	0.	.2174E+01
5	1	9	.2447E+01	0.	.2405E+01	5	2	7	.2400E+01	.4774E+00	.1942E+01
5	2	8	.2400E+01	.4774E+00	.2174E+01	5	2	9	.2400E+01	.4774E+00	.2405E+01
5	3	7	.2261E+01	.9364E+00	.1942E+01	5	3	8	.2261E+01	.9364E+00	.2174E+01
5	3	9	.2261E+01	.9364E+00	.2405E+01	5	4	7	.2035E+01	.1359E+01	.1942E+01
5	4	8	.2035E+01	.1359E+01	.2174E+01	5	4	9	.2035E+01	.1359E+01	.2405E+01
5	5	7	.1730E+01	.1730E+01	.1942E+01	5	5	8	.1730E+01	.1730E+01	.2174E+01
5	5	9	.1730E+01	.1730E+01	.2405E+01	6	1	7	.2482E+01	0.	.1942E+01
6	1	8	.2482E+01	0.	.2174E+01	6	1	9	.2482E+01	0.	.2405E+01
6	2	7	.2434E+01	.4842E+00	.1942E+01	6	2	8	.2434E+01	.4842E+00	.2174E+01
6	2	9	.2434E+01	.4842E+00	.2405E+01	6	3	7	.2293E+01	.9498E+00	.1942E+01
6	3	8	.2293E+01	.9498E+00	.2174E+01	6	3	9	.2293E+01	.9498E+00	.2405E+01
6	4	7	.2064E+01	.1379E+01	.1942E+01	6	4	8	.2064E+01	.1379E+01	.2174E+01
6	4	9	.2064E+01	.1379E+01	.2405E+01	6	5	7	.1755E+01	.1755E+01	.1942E+01
6	5	8	.1755E+01	.1755E+01	.2174E+01	6	5	9	.1755E+01	.1755E+01	.2405E+01
7	1	7	.2517E+01	0.	.1942E+01	7	1	8	.2517E+01	0.	.2174E+01
7	1	9	.2517E+01	0.	.2405E+01	7	2	7	.2469E+01	.4910E+00	.1942E+01
7	2	8	.2469E+01	.4910E+00	.2174E+01	7	2	9	.2469E+01	.4910E+00	.2405E+01
7	3	7	.2325E+01	.9632E+00	.1942E+01	7	3	8	.2325E+01	.9632E+00	.2174E+01
7	3	9	.2325E+01	.9632E+00	.2405E+01	7	4	7	.2093E+01	.1398E+01	.1942E+01
7	4	8	.2093E+01	.1398E+01	.2174E+01	7	4	9	.2093E+01	.1398E+01	.2405E+01

MESH GENERATION BLOCK IN CYLINDRICAL COORDINATE SYSTEM 2
FROM I J K 5 1 7 TO I J K 7 5 9

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
7	5	7	.1788E+01	.1788E+01	.1942E+01	7	5	8	.1788E+01	.1788E+01	.2174E+01
7	5	9	.1788E+01	.1788E+01	.2405E+01						

MESH GENERATION END IN CARTESIAN COORDINATE SYSTEM 1
FROM I J K 1 1 1 TO I J K 13 13 21

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
1	1	1	.9400E+00	0.	0.	1	1	2	.9400E+00	0.	.2315E+00
1	1	3	.9400E+00	0.	.4630E+00	1	1	4	.1281E+01	0.	.8543E+00
1	1	5	.1543E+01	0.	.1203E+01	1	1	6	.1884E+01	0.	.1551E+01
1	1	7	.2145E+01	0.	.1942E+01	1	1	8	.2145E+01	0.	.2174E+01
1	1	9	.2145E+01	0.	.2405E+01	1	2	1	.9221E+00	.1831E+00	0.
1	2	2	.9221E+00	.1831E+00	.2315E+00	1	2	3	.9221E+00	.1831E+00	.4631E+00
1	2	4	.1131E+01	.2134E+00	.8489E+00	1	2	5	.1401E+01	.2438E+00	.1203E+01
1	2	6	.1671E+01	.2741E+00	.1556E+01	1	2	7	.1880E+01	.3044E+00	.1942E+01
1	2	8	.1880E+01	.3044E+00	.2174E+01	1	2	9	.1880E+01	.3044E+00	.2405E+01
1	3	1	.8683E+00	.3595E+00	0.	1	3	2	.8683E+00	.3595E+00	.2315E+00
1	3	3	.8677E+00	.3595E+00	.4630E+00	1	3	4	.9947E+00	.3520E+00	.8435E+00
1	3	5	.1162E+01	.3446E+00	.1203E+01	1	3	6	.1329E+01	.3371E+00	.1561E+01
1	3	7	.1456E+01	.3297E+00	.1942E+01	1	3	8	.1456E+01	.3297E+00	.2174E+01
1	3	9	.1456E+01	.3297E+00	.2405E+01	1	4	1	.7816E+00	.5224E+00	0.
1	4	2	.7816E+00	.5224E+00	.2315E+00	1	4	3	.7816E+00	.5224E+00	.4630E+00
1	4	4	.8277E+00	.4889E+00	.8381E+00	1	4	5	.8937E+00	.4394E+00	.1203E+01
1	4	6	.9596E+00	.3979E+00	.1567E+01	1	4	7	.1005E+01	.3564E+00	.1942E+01
1	4	8	.1005E+01	.3564E+00	.2174E+01	1	4	9	.1005E+01	.3564E+00	.2405E+01
1	5	1	.6650E+00	.6650E+00	0.	1	5	2	.6650E+00	.6650E+00	.2315E+00
1	5	3	.6650E+00	.6650E+00	.4630E+00	1	5	4	.6650E+00	.6650E+00	.8328E+00
1	5	5	.6650E+00	.6650E+00	.1203E+01	1	5	5	.6650E+00	.6650E+00	.1572E+01
1	5	7	.6650E+00	.6650E+00	.1942E+01	1	5	8	.6650E+00	.6650E+00	.2174E+01
1	5	9	.6650E+00	.6650E+00	.2405E+01	2	1	1	.1317E+01	0.	0.
2	1	2	.1317E+01	0.	.2315E+00	2	1	3	.1317E+01	0.	.4630E+00
2	1	4	.1513E+01	0.	.8489E+00	2	1	5	.1769E+01	0.	.1203E+01
2	1	6	.2025E+01	0.	.1556E+01	2	1	7	.2221E+01	0.	.1942E+01
2	1	8	.2221E+01	0.	.2174E+01	2	1	9	.2221E+01	0.	.2405E+01
2	2	1	.1306E+01	.2595E+00	0.	2	2	2	.1293E+01	.2565E+00	.2315E+00
2	2	3	.1305E+01	.2595E+00	.4630E+00	2	2	4	.1457E+01	.2812E+00	.8449E+00
2	2	5	.1656E+01	.3029E+00	.1203E+01	2	2	6	.1856E+01	.3248E+00	.1563E+01
2	2	7	.2025E+01	.3595E+00	.1942E+01	2	2	8	.2020E+01	.3489E+00	.2174E+01
2	2	9	.2013E+01	.3469E+00	.2405E+01	2	3	1	.1234E+01	.5112E+00	0.
2	3	2	.1269E+01	.5805E+00	.2315E+00	2	3	3	.1234E+01	.5110E+00	.4630E+00
2	3	4	.1318E+01	.5004E+00	.8409E+00	2	3	5	.1434E+01	.4891E+00	.1203E+01
2	3	6	.1552E+01	.4769E+00	.1564E+01	2	3	7	.1675E+01	.4867E+00	.1942E+01
2	3	8	.1660E+01	.4776E+00	.2174E+01	2	3	9	.1640E+01	.4636E+00	.2405E+01
2	4	1	.1107E+01	.7398E+00	0.	2	4	2	.1074E+01	.7172E+00	.2315E+00
2	4	3	.1108E+01	.7398E+00	.4630E+00	2	4	4	.1127E+01	.6975E+00	.8369E+00
2	4	5	.1160E+01	.6528E+00	.1203E+01	2	4	6	.1194E+01	.6052E+00	.1569E+01
2	4	7	.1275E+01	.6153E+00	.1942E+01	2	4	8	.1247E+01	.5883E+00	.2174E+01
2	4	9	.1211E+01	.5540E+00	.2405E+01	2	5	1	.9312E+00	.9312E+00	0.
2	5	2	.8943E+00	.8943E+00	.2315E+00	2	5	3	.9312E+00	.9312E+00	.4630E+00

MESH GENERATION END IN CARTESIAN COORDINATE SYSTEM 1

FROM I J K 1 1 1 TO I J K 13 13 21

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
2	5	4	.9137E+00	.9137E+00	.8327E+00	2	5	5	.8943E+00	.8943E+00	.1203E+01
2	5	6	.8723E+00	.8723E+00	.1572E+01	2	5	7	.9312E+00	.9312E+00	.1942E+01
2	5	8	.8943E+00	.8943E+00	.2174E+01	2	5	9	.8471E+00	.8471E+00	.2405E+01
3	1	1	.1694E+01	0.	0.	3	1	2	.1694E+01	0.	.2319E+00
3	1	3	.1694E+01	0.	.4630E+00	3	1	4	.1824E+01	0.	.8435E+00
3	1	5	.1999E+01	0.	.1203E+01	3	1	6	.2189E+01	0.	.1581E+01
3	1	7	.2296E+01	0.	.1942E+01	3	1	8	.2296E+01	0.	.2174E+01
3	1	9	.2296E+01	0.	.2405E+01	3	2	1	.1690E+01	.3360E+00	0.
3	2	2	.1671E+01	.3323E+00	.2315E+00	3	2	3	.1689E+01	.3360E+00	.4630E+00
3	2	4	.1787E+01	.3496E+00	.8409E+00	3	2	5	.1916E+01	.3634E+00	.1203E+01
3	2	6	.2049E+01	.3773E+00	.1564E+01	3	2	7	.2169E+01	.3966E+00	.1942E+01
3	2	8	.2162E+01	.3944E+00	.2174E+01	3	2	9	.2153E+01	.3914E+00	.2405E+01
3	3	1	.1600E+01	.6626E+00	0.	3	3	2	.1565E+01	.6481E+00	.2315E+00
3	3	3	.1600E+01	.6626E+00	.4630E+00	3	3	4	.1640E+01	.6520E+00	.8382E+00
3	3	5	.1719E+01	.6403E+00	.1203E+01	3	3	6	.1791E+01	.6270E+00	.1566E+01
3	3	7	.1894E+01	.6477E+00	.1942E+01	3	3	8	.1873E+01	.6329E+00	.2174E+01
3	3	9	.1844E+01	.6116E+00	.2405E+01	3	4	1	.1433E+01	.9573E+00	0.
3	4	2	.1387E+01	.9201E+00	.2319E+00	3	4	3	.1433E+01	.9573E+00	.4630E+00
3	4	4	.1435E+01	.9213E+00	.8395E+00	3	4	5	.1447E+01	.8816E+00	.1203E+01
3	4	6	.1457E+01	.8371E+00	.1569E+01	3	4	7	.1545E+01	.8743E+00	.1942E+01
3	4	8	.1507E+01	.8372E+00	.2174E+01	3	4	9	.1453E+01	.7861E+00	.2405E+01
3	5	1	.1198E+01	.1198E+01	0.	3	5	2	.1147E+01	.1147E+01	.2319E+00
3	5	3	.1198E+01	.1198E+01	.4630E+00	3	5	4	.1174E+01	.1174E+01	.8327E+00
3	5	5	.1147E+01	.1147E+01	.1203E+01	3	5	6	.1115E+01	.1115E+01	.1572E+01
3	5	7	.1198E+01	.1198E+01	.1942E+01	3	5	8	.1147E+01	.1147E+01	.2174E+01
3	5	9	.1077E+01	.1077E+01	.2405E+01	4	1	1	.2070E+01	0.	0.
4	1	2	.2070E+01	0.	.2315E+00	4	1	3	.2070E+01	0.	.4630E+00
4	1	4	.2136E+01	0.	.8381E+00	4	1	5	.2221E+01	0.	.1203E+01
4	1	6	.2306E+01	0.	.1567E+01	4	1	7	.2372E+01	0.	.1942E+01
4	1	8	.2372E+01	0.	.2174E+01	4	1	9	.2372E+01	0.	.2409E+01
4	2	1	.2074E+01	.4124E+00	0.	4	2	2	.2059E+01	.4096E+00	.2315E+00
4	2	3	.2073E+01	.4124E+00	.4630E+00	4	2	4	.2120E+01	.4188E+00	.8369E+00
4	2	5	.2183E+01	.4253E+00	.1203E+01	4	2	6	.2249E+01	.4318E+00	.1569E+01
4	2	7	.2313E+01	.4427E+00	.1942E+01	4	2	8	.2388E+01	.4410E+00	.2174E+01
4	2	9	.2301E+01	.4385E+00	.2405E+01	4	3	1	.1966E+01	.8141E+00	0.
4	3	2	.1939E+01	.8029E+00	.2319E+00	4	3	3	.1988E+01	.8141E+00	.4630E+00
4	3	4	.1986E+01	.8071E+00	.8355E+00	4	3	5	.2018E+01	.7989E+00	.1203E+01
4	3	6	.2050E+01	.7892E+00	.1569E+01	4	3	7	.2113E+01	.8067E+00	.1942E+01
4	3	8	.2097E+01	.7949E+00	.2174E+01	4	3	9	.2073E+01	.7774E+00	.2405E+01
4	4	1	.1759E+01	.1175E+01	0.	4	4	2	.1723E+01	.1151E+01	.2315E+00
4	4	3	.1759E+01	.1175E+01	.4630E+00	4	4	4	.1755E+01	.1153E+01	.8342E+00
4	4	5	.1754E+01	.1126E+01	.1203E+01	4	4	6	.1752E+01	.1090E+01	.1571E+01
4	4	7	.1815E+01	.1133E+01	.1942E+01	4	4	8	.1785E+01	.1104E+01	.2174E+01
4	4	9	.1741E+01	.1062E+01	.2405E+01	4	5	1	.1464E+01	.1464E+01	0.
4	5	2	.1424E+01	.1424E+01	.2315E+00	4	5	3	.1464E+01	.1464E+01	.4630E+00
4	5	4	.1446E+01	.1446E+01	.8327E+00	4	5	5	.1424E+01	.1424E+01	.1203E+01
4	5	6	.1398E+01	.1398E+01	.1572E+01	4	5	7	.1464E+01	.1464E+01	.1942E+01
4	5	8	.1424E+01	.1424E+01	.2174E+01	4	5	9	.1388E+01	.1388E+01	.2409E+01
5	1	1	.2447E+01	0.	0.	5	1	2	.2447E+01	0.	.2315E+00
5	1	3	.2447E+01	0.	.4630E+00	5	1	4	.2447E+01	0.	.8328E+00
5	1	5	.2447E+01	0.	.1203E+01	5	1	6	.2447E+01	0.	.1572E+01

MESH GENERATION END IN CARTESIAN COORDINATE SYSTEM 1
FROM I J K 1 1 1 TO I J K 13 13 21

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
5	1	7	.2447E+01	0.	.1942E+01	5	1	8	.2447E+01	0.	.2174E+01
5	1	9	.2447E+01	0.	.2405E+01	5	2	1	.2400E+01	.4774E+00	0.
5	2	2	.2400E+01	.4774E+00	.2315E+00	5	2	3	.2400E+01	.4774E+00	.4630E+00
5	2	4	.2400E+01	.4774E+00	.8328E+00	5	2	5	.2400E+01	.4774E+00	.1203E+01
5	2	6	.2400E+01	.4774E+00	.1572E+01	5	2	7	.2400E+01	.4774E+00	.1942E+01
5	2	8	.2400E+01	.4774E+00	.2174E+01	5	2	9	.2400E+01	.4774E+00	.2405E+01
5	3	1	.2261E+01	.9364E+00	0.	5	3	2	.2261E+01	.9364E+00	.2315E+00
5	3	3	.2261E+01	.9364E+00	.4630E+00	5	3	4	.2261E+01	.9364E+00	.8328E+00
5	3	5	.2261E+01	.9364E+00	.1203E+01	5	3	6	.2261E+01	.9364E+00	.1572E+01
5	3	7	.2261E+01	.9364E+00	.1942E+01	5	3	8	.2261E+01	.9364E+00	.2174E+01
5	3	9	.2261E+01	.9364E+00	.2405E+01	5	4	1	.2035E+01	.1359E+01	0.
5	4	2	.2035E+01	.1359E+01	.2315E+00	5	4	3	.2035E+01	.1359E+01	.4630E+00
5	4	4	.2035E+01	.1359E+01	.8328E+00	5	4	5	.2035E+01	.1359E+01	.1203E+01
5	4	6	.2035E+01	.1359E+01	.1572E+01	5	4	7	.2035E+01	.1359E+01	.1942E+01
5	4	8	.2035E+01	.1359E+01	.2174E+01	5	4	9	.2035E+01	.1359E+01	.2405E+01
5	5	1	.1730E+01	.1730E+01	0.	5	5	2	.1730E+01	.1730E+01	.2315E+00
5	5	3	.1730E+01	.1730E+01	.4630E+00	5	5	4	.1730E+01	.1730E+01	.8328E+00
5	5	5	.1730E+01	.1730E+01	.1203E+01	5	5	6	.1730E+01	.1730E+01	.1572E+01
5	5	7	.1730E+01	.1730E+01	.1942E+01	5	5	8	.1730E+01	.1730E+01	.2174E+01
5	5	9	.1730E+01	.1730E+01	.2405E+01	6	1	1	.2482E+01	0.	0.
6	1	2	.2482E+01	0.	.2315E+00	6	1	3	.2482E+01	0.	.4638E+00
6	1	4	.2482E+01	0.	.8328E+00	6	1	5	.2482E+01	0.	.1203E+01
6	1	6	.2482E+01	0.	.1572E+01	6	1	7	.2482E+01	0.	.1942E+01
6	1	8	.2482E+01	0.	.2174E+01	6	1	9	.2482E+01	0.	.2405E+01
6	2	1	.2434E+01	.4842E+00	0.	6	2	2	.2434E+01	.4842E+00	.2315E+00
6	2	3	.2434E+01	.4842E+00	.4630E+00	6	2	4	.2434E+01	.4842E+00	.8327E+00
6	2	5	.2434E+01	.4842E+00	.1203E+01	6	2	6	.2434E+01	.4842E+00	.1572E+01
6	2	7	.2434E+01	.4842E+00	.1942E+01	6	2	8	.2434E+01	.4842E+00	.2174E+01
6	2	9	.2434E+01	.4842E+00	.2405E+01	6	3	1	.2293E+01	.9498E+00	0.
6	3	2	.2293E+01	.9498E+00	.2315E+00	6	3	3	.2293E+01	.9498E+00	.4630E+00
6	3	4	.2293E+01	.9498E+00	.8327E+00	6	3	5	.2293E+01	.9498E+00	.1203E+01
6	3	6	.2293E+01	.9498E+00	.1572E+01	6	3	7	.2293E+01	.9498E+00	.1942E+01
6	3	8	.2293E+01	.9498E+00	.2174E+01	6	3	9	.2293E+01	.9498E+00	.2405E+01
6	4	1	.2064E+01	.1379E+01	0.	6	4	2	.2064E+01	.1379E+01	.2315E+00
6	4	3	.2064E+01	.1379E+01	.4630E+00	6	4	4	.2064E+01	.1379E+01	.8327E+00
6	4	5	.2064E+01	.1379E+01	.1203E+01	6	4	6	.2064E+01	.1379E+01	.1572E+01
6	4	7	.2064E+01	.1379E+01	.1942E+01	6	4	8	.2064E+01	.1379E+01	.2174E+01
6	4	9	.2064E+01	.1379E+01	.2405E+01	6	5	1	.1755E+01	.1755E+01	0.
6	5	2	.1755E+01	.1755E+01	.2315E+00	6	5	3	.1755E+01	.1755E+01	.4630E+00
6	5	4	.1755E+01	.1755E+01	.8328E+00	6	5	5	.1755E+01	.1755E+01	.1203E+01
6	5	6	.1755E+01	.1755E+01	.1572E+01	6	5	7	.1755E+01	.1755E+01	.1942E+01
6	5	8	.1755E+01	.1755E+01	.2174E+01	6	5	9	.1755E+01	.1755E+01	.2405E+01
7	1	1	.2517E+01	0.	0.	7	1	2	.2517E+01	0.	.2315E+00
7	1	3	.2517E+01	0.	.4636E+00	7	1	4	.2517E+01	0.	.8328E+00
7	1	5	.2517E+01	0.	.1203E+01	7	1	6	.2517E+01	0.	.1572E+01
7	1	7	.2517E+01	0.	.1942E+01	7	1	8	.2517E+01	0.	.2174E+01
7	1	9	.2517E+01	0.	.2405E+01	7	2	1	.2469E+01	.4910E+00	0.
7	2	2	.2469E+01	.4910E+00	.2315E+00	7	2	3	.2469E+01	.4910E+00	.4630E+00
7	2	4	.2469E+01	.4910E+00	.8328E+00	7	2	5	.2469E+01	.4910E+00	.1203E+01
7	2	6	.2469E+01	.4910E+00	.1572E+01	7	2	7	.2469E+01	.4910E+00	.1942E+01
7	2	8	.2469E+01	.4910E+00	.2174E+01	7	2	9	.2469E+01	.4910E+00	.2405E+01

MESH GENERATION END IN CARTESIAN COORDINATE SYSTEM 1

FROM I J K I I I TO I J K I3 I3 I3

GLOBAL CARTESIAN COORDINATES OF POINTS GENERATED

I	J	K	X	Y	Z	I	J	K	X	Y	Z
7	3	1	.2325E+01	.9632E+00	0.	7	3	2	.2325E+01	.9632E+00	.2315E+00
7	3	3	.2325E+01	.9632E+00	.4630E+00	7	3	4	.2325E+01	.9632E+00	.8328E+00
7	3	5	.2325E+01	.9632E+00	.1203E+01	7	3	6	.2325E+01	.9632E+00	.1572E+01
7	3	7	.2325E+01	.9632E+00	.1942E+01	7	3	8	.2325E+01	.9632E+00	.2174E+01
7	3	9	.2325E+01	.9632E+00	.2405E+01	7	4	1	.2093E+01	.1398E+01	0.
7	4	2	.2093E+01	.1398E+01	.2319E+00	7	4	3	.2093E+01	.1398E+01	.4638E+00
7	4	4	.2093E+01	.1398E+01	.8328E+00	7	4	5	.2093E+01	.1398E+01	.1203E+01
7	4	6	.2093E+01	.1398E+01	.1572E+01	7	4	7	.2093E+01	.1398E+01	.1942E+01
7	4	8	.2093E+01	.1398E+01	.2174E+01	7	4	9	.2093E+01	.1398E+01	.2405E+01
7	5	1	.1780E+01	.1780E+01	0.	7	5	2	.1780E+01	.1780E+01	.2319E+00
7	5	3	.1780E+01	.1780E+01	.4630E+00	7	5	4	.1780E+01	.1780E+01	.8328E+00
7	5	5	.1780E+01	.1780E+01	.1203E+01	7	5	6	.1780E+01	.1780E+01	.1572E+01
7	5	7	.1780E+01	.1780E+01	.1942E+01	7	5	8	.1780E+01	.1780E+01	.2174E+01
7	5	9	.1780E+01	.1780E+01	.2405E+01						

DATA FOR 24 ELEMENTS HAVE BEEN READ

ELEMENT NO.	TYPE	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
1	BRICKH MATERIAL NO. 1	1	1	1	.000E+00	0.	0.	2	3	1	.128E+01	.511E+00	0.
		3	1	1	.169E+01	0.	0.	1	2	1	.922E+00	.183E+00	0.
		3	3	1	.168E+01	.663E+00	0.	1	1	2	.940E+00	0.	.232E+00
		1	3	1	.860E+00	.360E+00	0.	3	1	2	.169E+01	0.	.232E+00
		1	1	3	.940E+00	0.	.463E+00	3	3	2	.197E+01	.848E+00	.232E+00
		3	1	3	.169E+01	0.	.463E+00	1	3	2	.860E+00	.360E+00	.232E+00
		3	3	3	.168E+01	.663E+00	.463E+00	2	1	3	.132E+01	0.	.463E+00
		1	3	3	.860E+00	.360E+00	.463E+00	3	2	3	.169E+01	.386E+00	.463E+00
		2	1	1	.132E+01	0.	0.	2	3	3	.128E+01	.511E+00	.463E+00
		3	2	1	.169E+01	.336E+00	0.	1	2	3	.921E+00	.183E+00	.463E+00
2	BRICKH MATERIAL NO. 1	1	3	1	.864E+00	.360E+00	0.	2	5	1	.931E+00	.931E+00	0.
		3	3	1	.168E+01	.663E+00	0.	1	4	1	.792E+00	.922E+00	0.
		3	5	1	.120E+01	.120E+01	0.	1	3	2	.864E+00	.363E+00	.232E+00
		1	5	1	.665E+00	.665E+00	0.	3	3	2	.197E+01	.648E+00	.232E+00
		1	3	3	.864E+00	.360E+00	.463E+00	3	5	2	.115E+01	.115E+01	.232E+00
		3	3	3	.168E+01	.663E+00	.463E+00	1	5	2	.889E+00	.889E+00	.232E+00
		3	5	3	.120E+01	.120E+01	.463E+00	2	3	3	.128E+01	.511E+00	.463E+00
		1	5	3	.665E+00	.665E+00	.463E+00	3	4	3	.143E+01	.957E+00	.463E+00
		2	3	1	.123E+01	.511E+00	0.	2	5	3	.931E+00	.981E+00	.463E+00
		3	4	1	.143E+01	.957E+00	0.	1	4	3	.792E+00	.922E+00	.463E+00
3	BRICKH MATERIAL NO. 1	3	1	1	.169E+01	0.	0.	4	5	1	.199E+01	.988E+00	0.
		5	1	1	.245E+01	0.	0.	3	2	1	.169E+01	.336E+00	0.
		5	3	1	.226E+01	.936E+00	0.	3	1	2	.169E+01	0.	.232E+00
		3	3	1	.168E+01	.663E+00	0.	5	1	2	.245E+01	0.	.232E+00
		3	1	3	.169E+01	0.	.463E+00	5	3	2	.226E+01	.386E+00	.232E+00
		5	1	3	.245E+01	0.	.463E+00	3	3	2	.197E+01	.648E+00	.232E+00
		5	3	3	.226E+01	.936E+00	.463E+00	4	1	3	.207E+01	0.	.463E+00
		3	3	3	.168E+01	.663E+00	.463E+00	5	2	3	.248E+01	.477E+00	.463E+00
		4	1	1	.207E+01	0.	0.	4	3	3	.195E+01	.986E+00	.463E+00
		5	2	1	.248E+01	.477E+00	0.	3	2	3	.169E+01	.386E+00	.463E+00
4	BRICKH MATERIAL NO. 1	3	3	1	.168E+01	.663E+00	0.	4	5	1	.146E+01	.146E+01	0.
		5	3	1	.226E+01	.936E+00	0.	3	4	1	.143E+01	.957E+00	0.
		5	5	1	.173E+01	.173E+01	0.	3	3	2	.157E+01	.648E+00	.232E+00
		3	5	1	.128E+01	.128E+01	0.	5	3	2	.226E+01	.986E+00	.232E+00
		3	3	3	.168E+01	.663E+00	.463E+00	5	5	2	.173E+01	.173E+01	.232E+00
		5	3	3	.226E+01	.936E+00	.463E+00	3	5	2	.115E+01	.115E+01	.232E+00
		5	5	3	.173E+01	.173E+01	.463E+00	4	3	3	.195E+01	.806E+00	.463E+00
		3	5	3	.128E+01	.128E+01	.463E+00	5	4	3	.283E+01	.136E+01	.463E+00
		4	3	1	.195E+01	.806E+00	0.	4	5	3	.146E+01	.146E+01	.463E+00
		5	4	1	.283E+01	.136E+01	0.	3	4	3	.143E+01	.957E+00	.463E+00
5	BRICKH MATERIAL NO. 1	1	1	3	.940E+00	0.	.463E+00	2	3	3	.123E+01	.511E+00	.463E+00
		3	1	3	.169E+01	0.	.463E+00	1	2	3	.921E+00	.183E+00	.463E+00
		3	3	3	.168E+01	.663E+00	.463E+00	1	1	4	.128E+01	0.	.854E+00
		1	3	3	.860E+00	.360E+00	.463E+00	3	1	4	.182E+01	0.	.944E+00
		1	1	5	.154E+01	0.	.128E+01	3	3	4	.165E+01	.652E+00	.836E+00
		3	1	5	.199E+01	0.	.128E+01	1	3	4	.995E+00	.352E+00	.844E+00
		3	3	5	.172E+01	.644E+00	.128E+01	2	1	5	.177E+01	0.	.128E+01
		1	3	5	.116E+01	.345E+00	.128E+01	3	2	5	.192E+01	.363E+00	.128E+01
		2	1	3	.132E+01	0.	.463E+00	2	3	5	.148E+01	.489E+00	.129E+01
		3	2	3	.169E+01	.336E+00	.463E+00	1	2	5	.140E+01	.244E+00	.128E+01

ELEMENT NO.	TYPE	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
6	BRICKH MATERIAL NO. 1	1	1	3	.858E+00	.363E+00	.463E+00	2	5	3	.931E+00	.981E+00	.463E+00
		3	3	3	.168E+01	.663E+00	.463E+00	1	4	3	.702E+00	.522E+00	.463E+00
		3	5	3	.120E+01	.120E+01	.463E+00	1	3	4	.995E+00	.352E+00	.844E+00
		1	5	3	.665E+00	.665E+00	.463E+00	3	3	4	.165E+01	.652E+00	.838E+00
		1	1	5	.118E+01	.345E+00	.120E+01	3	5	4	.117E+01	.117E+01	.833E+00
		3	3	5	.172E+01	.640E+00	.120E+01	1	5	4	.665E+00	.665E+00	.833E+00
		3	5	5	.115E+01	.115E+01	.120E+01	2	3	5	.648E+00	.489E+00	.120E+01
		1	5	5	.665E+00	.665E+00	.120E+01	3	4	5	.145E+01	.882E+00	.120E+01
		2	3	3	.123E+01	.511E+00	.463E+00	2	5	5	.894E+00	.894E+00	.120E+01
		3	4	3	.143E+01	.957E+00	.463E+00	1	4	5	.809E+00	.443E+00	.120E+01
7	BRICKH MATERIAL NO. 1	3	1	3	.169E+01	0.	.463E+00	4	3	3	.195E+01	.886E+00	.463E+00
		5	1	3	.249E+01	0.	.463E+00	3	2	3	.169E+01	.386E+00	.463E+00
		5	3	3	.226E+01	.936E+00	.463E+00	3	1	4	.102E+01	0.	.844E+00
		3	3	3	.168E+01	.663E+00	.463E+00	5	1	4	.245E+01	0.	.833E+00
		3	1	5	.199E+01	0.	.120E+01	5	3	4	.226E+01	.936E+00	.833E+00
		5	1	5	.249E+01	0.	.120E+01	3	3	4	.165E+01	.652E+00	.838E+00
		5	3	5	.226E+01	.936E+00	.120E+01	4	1	5	.222E+01	0.	.120E+01
		3	3	5	.172E+01	.640E+00	.120E+01	5	2	5	.240E+01	.477E+00	.120E+01
		4	1	3	.207E+01	0.	.463E+00	4	3	5	.208E+01	.708E+00	.120E+01
		5	2	3	.240E+01	.477E+00	.463E+00	3	2	5	.192E+01	.363E+00	.120E+01
8	BRICKH MATERIAL NO. 1	3	3	3	.188E+01	.883E+00	.463E+00	4	5	3	.148E+01	.148E+01	.463E+00
		5	3	3	.226E+01	.936E+00	.463E+00	3	4	3	.143E+01	.957E+00	.463E+00
		5	5	3	.173E+01	.173E+01	.463E+00	3	3	4	.165E+01	.652E+00	.838E+00
		3	5	3	.120E+01	.120E+01	.463E+00	5	3	4	.226E+01	.936E+00	.833E+00
		3	3	5	.172E+01	.640E+00	.120E+01	5	5	4	.173E+01	.173E+01	.833E+00
		5	3	5	.226E+01	.936E+00	.120E+01	3	5	4	.117E+01	.117E+01	.833E+00
		5	5	5	.173E+01	.173E+01	.120E+01	4	3	5	.208E+01	.708E+00	.120E+01
		3	5	5	.115E+01	.115E+01	.120E+01	5	4	5	.203E+01	.136E+01	.120E+01
		4	3	3	.195E+01	.886E+00	.463E+00	4	5	5	.142E+01	.142E+01	.120E+01
		5	4	3	.203E+01	.136E+01	.463E+00	3	4	5	.145E+01	.882E+00	.120E+01
9	BRICKH MATERIAL NO. 1	1	1	5	.154E+01	0.	.120E+01	2	3	5	.148E+01	.489E+00	.120E+01
		3	1	5	.199E+01	0.	.120E+01	1	2	5	.149E+01	.244E+00	.120E+01
		3	3	5	.172E+01	.640E+00	.120E+01	1	1	6	.100E+01	0.	.155E+01
		1	3	5	.116E+01	.345E+00	.120E+01	3	1	6	.217E+01	0.	.156E+01
		1	1	7	.215E+01	0.	.194E+01	3	3	6	.170E+01	.627E+00	.157E+01
		3	1	7	.238E+01	0.	.194E+01	1	3	6	.133E+01	.387E+00	.156E+01
		3	3	7	.189E+01	.648E+00	.194E+01	2	1	7	.222E+01	0.	.194E+01
		1	3	7	.146E+01	.338E+00	.194E+01	3	2	7	.217E+01	.388E+00	.194E+01
		2	1	5	.177E+01	0.	.120E+01	2	3	7	.167E+01	.489E+00	.194E+01
		3	2	5	.192E+01	.363E+00	.120E+01	1	2	7	.100E+01	.304E+00	.194E+01
10	BRICKH MATERIAL NO. 1	1	3	5	.116E+01	.345E+00	.120E+01	2	5	5	.894E+00	.894E+00	.120E+01
		3	3	5	.172E+01	.640E+00	.120E+01	1	4	5	.809E+00	.443E+00	.120E+01
		3	5	5	.115E+01	.115E+01	.120E+01	1	3	6	.133E+01	.387E+00	.156E+01
		1	5	5	.665E+00	.665E+00	.120E+01	3	3	6	.170E+01	.627E+00	.157E+01
		1	3	7	.146E+01	.338E+00	.194E+01	3	5	6	.111E+01	.111E+01	.157E+01
		3	3	7	.189E+01	.648E+00	.194E+01	1	5	6	.665E+00	.665E+00	.157E+01
		3	5	7	.120E+01	.120E+01	.194E+01	2	3	7	.167E+01	.489E+00	.194E+01
		1	5	7	.665E+00	.665E+00	.194E+01	3	4	7	.154E+01	.888E+00	.194E+01
		2	3	5	.143E+01	.489E+00	.120E+01	2	5	7	.981E+00	.981E+00	.194E+01
		3	4	5	.145E+01	.882E+00	.120E+01	1	4	7	.101E+01	.356E+00	.194E+01

ELEMENT NO.	TYPE		NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
11	BRICKH	MATERIAL NO. 1	3	1	5	.199E+01	0.	.120E+01	4	3	5	.200E+01	.798E+00	.120E+01
			5	1	5	.245E+01	0.	.120E+01	3	2	5	.192E+01	.363E+00	.120E+01
			5	3	5	.226E+01	.936E+00	.120E+01	3	1	6	.217E+01	0.	.156E+01
			3	3	5	.172E+01	.640E+00	.120E+01	5	1	6	.245E+01	0.	.157E+01
			3	1	7	.230E+01	0.	.194E+01	5	3	6	.226E+01	.936E+00	.157E+01
			5	1	7	.245E+01	0.	.194E+01	3	3	6	.179E+01	.627E+00	.157E+01
			5	3	7	.226E+01	.936E+00	.194E+01	4	1	7	.237E+01	0.	.194E+01
			3	3	7	.189E+01	.648E+00	.194E+01	5	2	7	.240E+01	.477E+00	.194E+01
			4	1	5	.222E+01	0.	.120E+01	4	3	7	.209E+01	.789E+00	.194E+01
			5	2	5	.240E+01	.477E+00	.120E+01	3	2	7	.217E+01	.390E+00	.194E+01
12	BRICKH	MATERIAL NO. 1	3	3	5	.172E+01	.640E+00	.120E+01	4	5	5	.142E+01	.142E+01	.120E+01
			5	3	5	.226E+01	.936E+00	.120E+01	3	4	5	.145E+01	.802E+00	.120E+01
			5	5	5	.173E+01	.173E+01	.120E+01	3	3	6	.179E+01	.627E+00	.157E+01
			3	5	5	.115E+01	.115E+01	.120E+01	5	3	6	.226E+01	.936E+00	.157E+01
			3	3	7	.189E+01	.648E+00	.194E+01	5	5	6	.173E+01	.173E+01	.157E+01
			5	3	7	.226E+01	.936E+00	.194E+01	3	5	6	.111E+01	.111E+01	.157E+01
			5	5	7	.173E+01	.173E+01	.194E+01	4	3	7	.209E+01	.789E+00	.194E+01
			3	5	7	.120E+01	.120E+01	.194E+01	5	4	7	.203E+01	.186E+01	.194E+01
			4	3	5	.200E+01	.790E+00	.120E+01	4	5	7	.146E+01	.146E+01	.194E+01
			5	4	5	.203E+01	.136E+01	.120E+01	3	4	7	.154E+01	.888E+00	.194E+01
13	BRICKH	MATERIAL NO. 1	1	1	7	.219E+01	0.	.194E+01	2	3	7	.167E+01	.489E+00	.194E+01
			3	1	7	.230E+01	0.	.194E+01	1	2	7	.108E+01	.304E+00	.194E+01
			3	3	7	.189E+01	.648E+00	.194E+01	1	1	8	.215E+01	0.	.217E+01
			1	3	7	.146E+01	.330E+00	.194E+01	3	1	8	.230E+01	0.	.217E+01
			1	1	9	.215E+01	0.	.241E+01	3	3	8	.187E+01	.682E+00	.217E+01
			3	1	9	.230E+01	0.	.241E+01	1	3	8	.146E+01	.330E+00	.217E+01
			3	3	9	.184E+01	.612E+00	.241E+01	2	1	9	.222E+01	0.	.241E+01
			1	3	9	.146E+01	.330E+00	.241E+01	3	2	9	.215E+01	.391E+00	.241E+01
			2	1	7	.222E+01	0.	.194E+01	2	3	9	.164E+01	.464E+00	.241E+01
			3	2	7	.217E+01	.390E+00	.194E+01	1	2	9	.108E+01	.304E+00	.241E+01
14	BRICKH	MATERIAL NO. 1	1	3	7	.146E+01	.330E+00	.194E+01	2	5	7	.931E+00	.931E+00	.194E+01
			3	3	7	.189E+01	.648E+00	.194E+01	1	4	7	.101E+01	.356E+00	.194E+01
			3	5	7	.120E+01	.120E+01	.194E+01	1	3	8	.146E+01	.330E+00	.217E+01
			1	5	7	.665E+00	.665E+00	.194E+01	3	3	8	.187E+01	.682E+00	.217E+01
			1	3	9	.146E+01	.330E+00	.241E+01	3	5	8	.115E+01	.115E+01	.217E+01
			3	3	9	.184E+01	.612E+00	.241E+01	1	5	8	.665E+00	.665E+00	.217E+01
			3	5	9	.108E+01	.108E+01	.241E+01	2	3	9	.164E+01	.464E+00	.241E+01
			1	5	9	.665E+00	.665E+00	.241E+01	3	4	9	.145E+01	.786E+00	.241E+01
			2	3	7	.167E+01	.489E+00	.194E+01	2	5	9	.860E+00	.860E+00	.240E+01
			3	4	7	.154E+01	.888E+00	.194E+01	1	4	9	.101E+01	.356E+00	.241E+01
15	BRICKH	MATERIAL NO. 1	3	1	7	.230E+01	0.	.194E+01	4	3	7	.209E+01	.789E+00	.194E+01
			5	1	7	.245E+01	0.	.194E+01	3	2	7	.217E+01	.390E+00	.194E+01
			5	3	7	.226E+01	.936E+00	.194E+01	3	1	8	.230E+01	0.	.217E+01
			3	3	7	.189E+01	.648E+00	.194E+01	5	1	8	.245E+01	0.	.217E+01
			3	1	9	.230E+01	0.	.241E+01	5	3	8	.226E+01	.986E+00	.217E+01
			5	1	9	.245E+01	0.	.241E+01	3	3	8	.187E+01	.632E+00	.217E+01
			5	3	9	.226E+01	.936E+00	.241E+01	4	1	9	.237E+01	0.	.241E+01
			3	3	9	.184E+01	.612E+00	.241E+01	5	2	9	.240E+01	.477E+00	.241E+01
			4	1	7	.237E+01	0.	.194E+01	4	3	9	.207E+01	.774E+00	.241E+01
			5	2	7	.240E+01	.477E+00	.194E+01	3	2	9	.215E+01	.391E+00	.241E+01

ELEMENT NO.	TYPE		NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
16	BRICKH	MATERIAL NO. 1	3	3	7	.189E+01	.848E+00	.194E+01	6	5	7	.146E+01	.146E+01	.194E+01
			5	3	7	.226E+01	.936E+00	.194E+01	3	4	7	.154E+01	.888E+00	.194E+01
			5	5	7	.173E+01	.173E+01	.194E+01	3	3	8	.107E+01	.682E+00	.217E+01
			3	5	7	.120E+01	.120E+01	.194E+01	5	3	8	.226E+01	.986E+00	.217E+01
			3	3	9	.184E+01	.812E+00	.241E+01	5	5	8	.178E+01	.173E+01	.217E+01
			5	3	9	.226E+01	.936E+00	.241E+01	3	5	8	.115E+01	.115E+01	.217E+01
			5	5	9	.173E+01	.173E+01	.241E+01	4	3	9	.207E+01	.774E+00	.241E+01
			3	5	9	.108E+01	.105E+01	.241E+01	5	4	9	.208E+01	.186E+01	.241E+01
			4	3	7	.209E+01	.709E+00	.194E+01	4	5	9	.139E+01	.189E+01	.240E+01
			5	4	7	.233E+01	.133E+01	.194E+01	3	4	9	.145E+01	.786E+00	.241E+01
17	BRICK	MATERIAL NO. 2	5	1	1	.245E+01	0.	0.	6	3	1	.229E+01	.950E+00	0.
			7	1	1	.292E+01	0.	0.	5	2	1	.240E+01	.477E+00	0.
			7	3	1	.233E+01	.963E+00	0.	5	1	2	.245E+01	0.	.232E+00
			5	3	1	.226E+01	.935E+00	0.	7	1	2	.252E+01	0.	.232E+00
			5	1	3	.245E+01	0.	.463E+00	7	3	2	.233E+01	.963E+00	.232E+00
			7	1	3	.292E+01	0.	.463E+00	5	3	2	.226E+01	.986E+00	.232E+00
			7	3	3	.233E+01	.963E+00	.463E+00	6	1	3	.240E+01	0.	.463E+00
			5	3	3	.226E+01	.935E+00	.463E+00	7	2	3	.247E+01	.491E+00	.463E+00
			6	1	1	.240E+01	0.	0.	6	3	3	.229E+01	.950E+00	.463E+00
			7	2	1	.247E+01	.491E+00	0.	5	2	3	.240E+01	.477E+00	.463E+00
18	BRICK	MATERIAL NO. 2	5	3	1	.226E+01	.935E+00	0.	6	5	1	.178E+01	.178E+01	0.
			7	3	1	.233E+01	.963E+00	0.	5	4	1	.203E+01	.186E+01	0.
			7	5	1	.178E+01	.179E+01	0.	5	3	2	.226E+01	.986E+00	.232E+00
			5	5	1	.173E+01	.173E+01	0.	7	3	2	.233E+01	.963E+00	.232E+00
			5	3	3	.226E+01	.935E+00	.463E+00	7	5	2	.178E+01	.178E+01	.232E+00
			7	3	3	.233E+01	.963E+00	.463E+00	5	5	2	.178E+01	.173E+01	.232E+00
			7	5	3	.178E+01	.178E+01	.463E+00	6	3	3	.229E+01	.950E+00	.463E+00
			5	5	3	.173E+01	.173E+01	.463E+00	7	4	3	.209E+01	.140E+01	.463E+00
			6	3	1	.229E+01	.950E+00	0.	6	5	3	.178E+01	.178E+01	.463E+00
			7	4	1	.209E+01	.140E+01	0.	5	4	3	.203E+01	.186E+01	.463E+00
19	BRICK	MATERIAL NO. 2	5	1	3	.245E+01	0.	.463E+00	6	3	3	.229E+01	.950E+00	.463E+00
			7	1	3	.292E+01	0.	.463E+00	5	2	3	.240E+01	.477E+00	.463E+00
			7	3	3	.233E+01	.963E+00	.463E+00	5	1	4	.245E+01	0.	.833E+00
			5	3	3	.226E+01	.936E+00	.463E+00	7	1	4	.252E+01	0.	.833E+00
			5	1	5	.245E+01	0.	.120E+01	7	3	4	.233E+01	.963E+00	.833E+00
			7	1	5	.252E+01	0.	.120E+01	5	3	4	.226E+01	.986E+00	.833E+00
			7	3	5	.233E+01	.963E+00	.120E+01	6	1	5	.240E+01	0.	.120E+01
			5	3	5	.226E+01	.936E+00	.120E+01	7	2	5	.247E+01	.491E+00	.120E+01
			6	1	3	.240E+01	0.	.463E+00	6	3	5	.229E+01	.950E+00	.120E+01
			7	2	3	.247E+01	.491E+00	.463E+00	5	2	5	.240E+01	.477E+00	.120E+01
20	BRICK	MATERIAL NO. 2	5	3	3	.226E+01	.935E+00	.463E+00	6	5	3	.176E+01	.176E+01	.463E+00
			7	3	3	.233E+01	.963E+00	.463E+00	5	4	3	.203E+01	.186E+01	.463E+00
			7	5	3	.178E+01	.178E+01	.463E+00	5	3	4	.226E+01	.986E+00	.833E+00
			5	5	3	.173E+01	.173E+01	.463E+00	7	3	4	.233E+01	.963E+00	.833E+00
			5	3	5	.226E+01	.936E+00	.120E+01	7	5	4	.178E+01	.178E+01	.833E+00
			7	3	5	.233E+01	.963E+00	.120E+01	5	5	4	.173E+01	.173E+01	.833E+00
			7	5	5	.178E+01	.178E+01	.120E+01	6	3	5	.229E+01	.950E+00	.120E+01
			5	5	5	.173E+01	.173E+01	.120E+01	7	4	5	.209E+01	.140E+01	.120E+01
			6	3	3	.229E+01	.950E+00	.463E+00	6	5	5	.176E+01	.176E+01	.120E+01
			7	4	3	.209E+01	.140E+01	.463E+00	5	4	5	.203E+01	.186E+01	.120E+01

ELEMENT NO.	TYPE		NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
21	BRICK	MATERIAL NO. 2	5	1	5	.245E+01	0.	.120E+01	6	3	5	.229E+01	.950E+00	.120E+01
			7	1	5	.252E+01	0.	.120E+01	5	2	5	.240E+01	.477E+00	.120E+01
			7	3	5	.233E+01	.963E+00	.120E+01	5	1	6	.245E+01	0.	.157E+01
			5	3	5	.226E+01	.936E+00	.120E+01	7	1	6	.252E+01	0.	.157E+01
			5	1	7	.249E+01	0.	.194E+01	7	3	6	.233E+01	.963E+00	.197E+01
			7	1	7	.252E+01	0.	.194E+01	5	3	6	.226E+01	.936E+00	.157E+01
			7	3	7	.233E+01	.963E+00	.194E+01	6	1	7	.248E+01	0.	.194E+01
			5	3	7	.226E+01	.935E+00	.194E+01	7	2	7	.247E+01	.491E+00	.194E+01
			6	1	5	.248E+01	0.	.120E+01	6	3	7	.229E+01	.950E+00	.194E+01
			7	2	5	.247E+01	.491E+00	.120E+01	5	2	7	.240E+01	.477E+00	.194E+01
22	BRICK	MATERIAL NO. 2	5	3	5	.226E+01	.936E+00	.120E+01	6	5	5	.176E+01	.176E+01	.120E+01
			7	3	5	.233E+01	.963E+00	.120E+01	5	4	5	.203E+01	.186E+01	.120E+01
			7	5	5	.178E+01	.178E+01	.120E+01	5	3	6	.226E+01	.986E+00	.157E+01
			5	5	5	.173E+01	.173E+01	.120E+01	7	3	6	.233E+01	.963E+00	.157E+01
			5	3	7	.226E+01	.936E+00	.194E+01	7	5	6	.178E+01	.178E+01	.157E+01
			7	3	7	.233E+01	.963E+00	.194E+01	5	5	6	.178E+01	.173E+01	.197E+01
			7	5	7	.178E+01	.178E+01	.194E+01	6	3	7	.229E+01	.950E+00	.194E+01
			5	5	7	.173E+01	.173E+01	.194E+01	7	4	7	.209E+01	.140E+01	.194E+01
			6	3	5	.229E+01	.950E+00	.120E+01	6	5	7	.176E+01	.176E+01	.194E+01
			7	4	5	.209E+01	.140E+01	.120E+01	5	4	7	.203E+01	.186E+01	.194E+01
23	BRICK	MATERIAL NO. 2	5	1	7	.249E+01	0.	.194E+01	6	3	7	.229E+01	.950E+00	.194E+01
			7	1	7	.252E+01	0.	.194E+01	5	2	7	.240E+01	.477E+00	.194E+01
			7	3	7	.233E+01	.963E+00	.194E+01	5	1	8	.245E+01	0.	.217E+01
			5	3	7	.226E+01	.936E+00	.194E+01	7	1	8	.252E+01	0.	.217E+01
			5	1	9	.245E+01	0.	.241E+01	7	3	8	.233E+01	.963E+00	.217E+01
			7	1	9	.252E+01	0.	.241E+01	5	3	8	.226E+01	.936E+00	.217E+01
			7	3	9	.233E+01	.963E+00	.241E+01	6	1	9	.248E+01	0.	.241E+01
			5	3	9	.226E+01	.936E+00	.241E+01	7	2	9	.247E+01	.491E+00	.241E+01
			6	1	7	.248E+01	0.	.194E+01	6	3	9	.229E+01	.950E+00	.241E+01
			7	2	7	.247E+01	.491E+00	.194E+01	5	2	9	.240E+01	.477E+00	.241E+01
24	BRICK	MATERIAL NO. 2	5	3	7	.226E+01	.936E+00	.194E+01	6	5	7	.176E+01	.176E+01	.194E+01
			7	3	7	.233E+01	.963E+00	.194E+01	5	4	7	.203E+01	.186E+01	.194E+01
			7	5	7	.178E+01	.178E+01	.194E+01	5	3	8	.226E+01	.986E+00	.217E+01
			5	5	7	.173E+01	.173E+01	.194E+01	7	3	8	.233E+01	.963E+00	.217E+01
			5	3	9	.226E+01	.936E+00	.241E+01	7	5	8	.178E+01	.178E+01	.217E+01
			7	3	9	.233E+01	.963E+00	.241E+01	5	5	8	.178E+01	.173E+01	.217E+01
			7	5	9	.178E+01	.178E+01	.241E+01	6	3	9	.229E+01	.950E+00	.241E+01
			5	5	9	.173E+01	.173E+01	.241E+01	7	4	9	.209E+01	.140E+01	.241E+01
			6	3	7	.229E+01	.950E+00	.194E+01	6	5	9	.176E+01	.176E+01	.241E+01
			7	4	7	.209E+01	.140E+01	.194E+01	5	4	9	.203E+01	.186E+01	.241E+01

BOUNDARY CONDITIONS.

ELEMENT NUMBER	ELEMENT I	J	K	TYPE	NODE OR FACE	VALUE			
1	1	1	1	UZ	3	-.1092E-01			
				UZ	10	-.1092E-01			
				UZ	2	-.1092E-01			
				UZ	11	-.1638E-01			
				UZ	9	-.1638E-01			
				UZ	4	-.2184E-01			
				UZ	12	-.2184E-01			
				UZ	1	-.2184E-01			
				PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	5	0.			
2	1	3	1	UZ	3	-.1092E-01			
				UZ	10	-.1092E-01			
				UZ	11	-.1638E-01			
				UZ	4	-.2184E-01			
				UZ	12	-.2184E-01			
				PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	2	0.			
3	3	1	1	UZ	3	0.			
				UZ	10	0.			
				UZ	2	0.			
				UZ	11	-.5460E-02			
				UZ	9	-.5460E-02			
				SLOPE	5	0.			
4	3	3	1	UZ	3	0.			
				UZ	10	0.			
				UZ	11	-.5460E-02			
				SLOPE	2	0.			
5	1	1	3	PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	5	0.			
6	1	3	3	PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	2	0.			
7	3	1	3	SLOPE	5	0.			
8	3	3	3	SLOPE	2	0.			
9	1	1	5	PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	5	0.			
10	1	3	5	PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	2	0.			
11	3	1	5	SLOPE	5	0.			
12	3	3	5	SLOPE	2	0.			
13	1	1	7	UZ	7	-.2570E-02			
				UZ	10	-.2060E-02			
				UZ	6	-.1040E-02			

BOUNDARY CONDITIONS,

ELEMENT NUMBER	ELEMENT I	J	K	TYPE	NODE OR FACE	VALUE			
13	1	1	7	UZ	19	-.2960E-02			
				UZ	17	-.2000E-02			
				UZ	8	-.3470E-02			
				UZ	20	-.2660E-02			
				UZ	5	-.2150E-02			
				PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	5	0.			
14	1	3	7	UZ	7	-.3410E-02			
				UZ	18	-.3170E-02			
				UZ	19	-.3840E-02			
				UZ	8	-.4620E-02			
				UZ	20	-.4350E-02			
				PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	2	0.			
15	3	1	7	UZ	7	-.1530E-02			
				UZ	18	-.1530E-02			
				UZ	6	-.1530E-02			
				UZ	19	-.1990E-02			
				UZ	17	-.1680E-02			
				SLOPE	5	0.			
16	3	3	7	UZ	7	-.1530E-02			
				UZ	18	-.1530E-02			
				UZ	19	-.2360E-02			
				SLOPE	2	0.			
17	5	1	1	SLOPE	6	0.			
				SLOPE	5	0.			
18	5	3	1	SLOPE	6	0.			
				SLOPE	2	0.			
19	5	1	3	SLOPE	5	0.			
20	5	3	3	SLOPE	2	0.			
21	5	1	5	SLOPE	5	0.			
22	5	3	5	SLOPE	2	0.			
23	5	1	7	SLOPE	5	0.			
24	5	3	7	SLOPE	2	0.			

TIME IN SETUP = 3.438 SECONDS

TIME IN FORMKF = 18.951 SECONDS

TIME IN PREFRONT = 1.282

TOTAL NUMBER OF D.O.F.S = 624

D.O.F.S IN FRONT = 184

MAXIMUM ACTIVE STORAGE = 19802

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TOTAL NICKNAME STORAGE =   608
BUFFER LENGTH =   7197
TIME IN FORWARD ELIMINATION =   33.827
NUMBER OF SECTORS(PRUS) =  1452
TIME IN BACKSUBSTITUTION =   2.785
TIME IN ZIPP       =     37.898 SECONDS
```

BLOCK OPTION

BOUNDS

	MIN	MAX		MIN	MAX
X	-.1000E+21	.1000E+21	I	0	0
Y	-.1000E+21	.1000E+21	J	0	0
Z	-.1000E+21	.1000E+21	K	0	0

PRINT LEVEL = 4

STRESS POINTS FOR BRICK(DEGEN) ELEMENTS

POINT	S1	S2	S3
1	-1.000	-1.000	-1.000
2	1.000	-1.000	-1.000
3	1.000	1.000	-1.000
4	-1.000	1.000	-1.000
5	-1.000	-1.000	1.000
6	1.000	-1.000	1.000
7	1.000	1.000	1.000
8	-1.000	1.000	1.000
9	0.000	0.000	0.000

STRESS POINTS FOR PRISM ELEMENTS

POINT	S1	S2	S3	S4
1	1.000	0.000	0.000	-1.000
2	0.000	1.000	0.000	-1.000
3	0.000	0.000	1.000	-1.000
4	1.000	0.000	0.000	1.000
5	0.000	1.000	0.000	1.000
6	0.000	0.000	1.000	1.000
7	.333	.333	.333	0.000

STRESS POINTS FOR WEDGE ELEMENTS

POINT	S1	S2	S3
1	.050	0.000	-1.000
2	1.000	0.000	-1.000
3	1.000	1.000	-1.000
4	.050	0.000	1.000
5	1.000	0.000	1.000
6	1.000	1.000	1.000
7	.667	.500	0.000

STRESS POINTS FOR TETRA ELEMENTS

POINT	S1	S2	S3	S4
1	1.000	0.000	0.000	0.000
2	0.000	1.000	0.000	0.000
3	0.000	0.000	1.000	0.000
4	0.000	0.000	0.000	1.000
5	.250	.250	.250	.250

DISPLACEMENTS FOR BRICKH ELEMENT NO. 1 MATERIAL = 1

I	J	K	U	V	W	H
1	1	1	.2101E-01	.3775E-09	-.2184E-01	-.1774E+00
3	1	1	.1821E-01	.3585E-09	-.1892E-01	-.1843E+00
3	3	1	.9492E-02	.3927E-02	-.1892E-01	-.1811E+00
1	3	1	.1938E-01	.8182E-02	-.2184E-01	-.1793E+00
1	1	3	.1519E-01	.3698E-09	-.2284E-01	-.1823E+00
3	1	3	.8448E-02	.3616E-09	-.9979E-02	-.1975E+00
3	3	3	.6244E-02	.2767E-02	-.9745E-02	-.1995E+00
1	3	3	.1411E-01	.7230E-02	-.2091E-01	-.1883E+00
2	1	1	.1464E-01	-.1020E-08	-.1638E-01	
3	2	1	.9839E-02	.2831E-02	-.1992E-01	
2	3	1	.1345E-01	.5765E-02	-.1638E-01	
1	2	1	.2057E-01	.4110E-02	-.2184E-01	
1	1	2	.1883E-01	-.7196E-09	-.2198E-01	
3	1	2	.7413E-02	-.6473E-09	-.1822E-01	
3	3	2	.7295E-02	.3882E-02	-.1863E-01	
1	3	2	.1673E-01	.7471E-02	-.2143E-01	
2	1	3	.9539E-02	-.1042E-08	-.1538E-01	
3	2	3	.6298E-02	.1348E-02	-.9613E-02	
2	3	3	.8976E-02	.3978E-02	-.1518E-01	
1	2	3	.1473E-01	.3947E-02	-.2136E-01	

STRESSES FOR BRICKH ELEMENT NO. 1 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
1	.94E+00	0.	0.	-.14E+04	-.84E+03	-.11E+04	-.88E+00	-.78E-02	.82E+01	-.84E+00	-.11E+04	-.14E+04	.26E+03
				-.19E-01	.22E-01	-.80E-03	-.14E-03	-.12E-05	.13E-02	.22E-01	-.78E-03	-.19E-01	.42E-01
2	.17E+01	0.	0.	-.13E+04	-.11E+04	-.11E+04	-.53E+00	-.11E+02	-.96E+01	-.11E+04	-.11E+04	-.13E+04	.99E+02
				-.92E-02	.62E-02	.40E-02	-.83E-04	-.17E-02	-.15E-02	.64E-02	.37E-02	-.92E-02	.16E-01
3	.16E+01	.66E+00	0.	-.12E+04	-.11E+04	-.11E+04	-.59E+02	-.52E+01	-.11E+02	-.11E+04	-.11E+04	-.13E+04	.97E+02
				-.87E-02	.34E-02	.45E-02	-.94E-02	-.82E-03	-.17E-02	.52E-02	.45E-02	-.86E-02	.14E-01
4	.97E+00	.38E+00	0.	-.13E+04	-.91E+03	-.11E+04	-.19E+03	.78E+01	.11E+02	-.94E+00	-.11E+04	-.14E+04	.27E+03
				-.12E-01	.17E-01	.67E-03	-.29E-01	.12E-02	.18E-02	.23E-01	.73E-03	-.19E-01	.42E-01
5	.94E+00	0.	.46E+00	-.14E+04	-.86E+03	-.12E+04	-.14E+02	.21E+02	.58E+02	-.96E+03	-.11E+04	-.14E+04	.27E+03
				-.18E-01	.23E-01	-.76E-04	-.22E-02	.34E-02	.79E-02	.23E-01	.64E-03	-.19E-01	.42E-01
6	.17E+01	0.	.46E+00	-.13E+04	-.12E+04	-.12E+04	-.17E-01	.27E+01	.76E+02	-.12E+04	-.12E+04	-.14E+04	.83E+02
				-.48E-02	.39E-02	.86E-04	-.28E-05	.43E-03	.12E-01	.42E-02	.38E-02	-.88E-02	.13E-01
7	.16E+01	.88E+00	.46E+00	-.13E+04	-.12E+04	-.13E+04	-.22E+02	.29E+02	.78E+02	-.12E+04	-.12E+04	-.14E+04	.97E+02
				-.36E-02	.37E-02	.75E-03	-.35E-02	.40E-02	.12E-01	.53E-02	.39E-02	-.84E-02	.14E-01
8	.97E+00	.36E+00	.46E+00	-.13E+04	-.10E+04	-.11E+04	-.16E+03	.62E+02	-.44E+01	-.92E+03	-.11E+04	-.14E+04	.23E+03
				-.13E-01	.11E-01	.51E-02	-.26E-01	.97E-32	-.78E-03	.19E-01	.35E-02	-.19E-01	.37E-01
9	.13E+01	.26E+00	.23E+00	-.13E+04	-.11E+04	-.11E+04	-.55E+02	.44E+01	.26E+02	-.11E+04	-.11E+04	-.13E+04	.15E+03
				-.13E-01	.82E-02	.28E-02	-.86E-02	.70E-03	.40E-02	.91E-02	.30E-02	-.14E-01	.23E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 2 MATERIAL = 1

I	J	K	U	V	W	H
1	3	1	.1936E-01	.8182E-02	-.2184E-01	-.1793E+00
3	3	1	.9492E-02	.3927E-02	-.1092E-01	-.1811E+00
3	5	1	.7777E-02	.7777E-02	-.1092E-01	-.1856E+00
1	5	1	.1496E-01	.1496E-01	-.2184E-01	-.1752E+00
1	3	3	.1411E-01	.7230E-02	-.2851E-01	-.1803E+00
3	3	3	.6244E-02	.2767E-02	-.9745E-02	-.1995E+00
3	5	3	.5321E-02	.5321E-02	-.1021E-01	-.1993E+00
1	5	3	.1131E-01	.1131E-01	-.1995E-01	-.1861E+00
2	3	1	.1345E-01	.5765E-02	-.1638E-01	
3	4	1	.8862E-02	.5758E-02	-.1092E-01	
2	5	1	.1065E-01	.1065E-01	-.1638E-01	
1	4	1	.1733E-01	.1185E-01	-.2184E-01	
1	3	2	.1673E-01	.7471E-02	-.2143E-01	
3	3	2	.7295E-02	.3082E-02	-.1063E-01	
3	5	2	.6214E-02	.6214E-02	-.1140E-01	
1	5	2	.1303E-01	.1303E-01	-.2099E-01	
2	3	3	.8976E-02	.3978E-02	-.1510E-01	
3	4	3	.6020E-02	.3980E-02	-.9905E-02	
2	5	3	.7435E-02	.7435E-02	-.1551E-01	
1	4	3	.1311E-01	.9361E-02	-.1907E-01	

STRESSES FOR BRICKH ELEMENT NO. 2 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
10	.67E+00	.36E+00	0.	-.13E+04	-.92E+03	-.11E+04	-.19E+03	.76E+01	.11E+02	-.94E+03	-.11E+04	-.14E+04	.26E+03
				-.12E-01	.17E-01	.67E-03	-.30E-01	.12E-02	.18E-02	.23E-01	.73E-03	-.19E-01	.42E-01
11	.16E+01	.66E+00	0.	-.12E+04	-.11E+04	-.11E+04	-.60E+02	-.52E+01	-.11E+02	-.11E+04	-.11E+04	-.13E+04	.86E+02
				-.66E-02	.31E-02	.45E-02	-.95E-02	-.82E-03	-.17E-02	.51E-02	.45E-02	-.86E-02	.14E-01
12	.12E+01	.12E+01	0.	-.12E+04	-.12E+04	-.11E+04	-.97E+02	-.19E+01	-.17E+02	-.11E+04	-.11E+04	-.13E+04	.90E+02
				-.87E-03	-.18E-03	.33E-02	-.15E-01	-.31E-03	-.27E-02	.73E-02	.33E-02	-.82E-02	.15E-01
13	.67E+00	.67E+00	0.	-.11E+04	-.11E+04	-.11E+04	-.25E+03	.92E+01	.97E+01	-.89E+03	-.11E+04	-.13E+04	.23E+03
				.29E-03	.13E-02	.21E-02	-.39E-01	.15E-02	.15E-02	.20E-01	.22E-02	-.19E-01	.39E-01
14	.97E+00	.36E+00	.46E+00	-.13E+04	-.11E+04	-.11E+04	-.15E+03	.56E+02	-.20E+01	-.96E+03	-.11E+04	-.14E+04	.21E+03
				-.14E-01	.69E-02	.51E-02	-.23E-01	.88E-02	-.32E-03	.14E-01	.33E-02	-.19E-01	.33E-01
15	.16E+01	.66E+00	.46E+00	-.13E+04	-.12E+04	-.13E+04	-.20E+02	.30E+02	.74E+02	-.12E+04	-.12E+04	-.14E+04	.87E+02
				-.36E-02	.29E-02	.75E-03	-.31E-02	.48E-02	.12E-01	.54E-02	.29E-02	-.83E-02	.14E-01
16	.12E+01	.12E+01	.46E+00	-.13E+04	-.13E+04	-.13E+04	-.60E+02	.73E+02	.65E+02	-.12E+04	-.12E+04	-.14E+04	.10E+03
				-.11E-03	.31E-03	-.11E-02	-.95E-02	.11E-01	.10E-01	.54E-02	.45E-02	-.11E-01	.18E-01
17	.67E+00	.67E+00	.46E+00	-.12E+04	-.12E+04	-.11E+04	-.21E+03	.18E+01	-.13E+02	-.98E+03	-.11E+04	-.14E+04	.21E+03
				-.57E-03	-.19E-02	.82E-02	-.33E-01	.28E-03	-.21E-02	.15E-01	.81E-02	-.18E-01	.33E-01
18	.11E+01	.72E+00	.23E+00	-.13E+04	-.11E+04	-.11E+04	-.14E+03	.13E+02	.23E+02	-.11E+04	-.11E+04	-.14E+04	.15E+03
				-.66E-02	.20E-02	.29E-02	-.21E-01	.21E-02	.36E-02	.92E-02	.28E-02	-.14E-01	.23E-01

DISPLACEMENTS FOR BRICKM ELEMENT NO. 3 MATERIAL = 1

I	J	K	U	V	W	H
3	1	1	.1021E-01	.3585E-09	-.1892E-01	-.1843E+00
9	1	1	.3687E-02	-.1161E-12	.1438E-21	-.2463E+00
5	3	1	.3868E-02	.1801E-02	.3344E-21	-.2432E+00
3	3	1	.9492E-02	.3927E-02	-.1892E-01	-.1811E+00
3	1	3	.6448E-02	.3616E-09	-.9979E-02	-.1970E+00
5	1	3	.3429E-02	-.1099E-12	-.3287E-03	-.1934E+00
5	3	3	.3661E-02	.1733E-02	-.3231E-03	-.1931E+00
3	3	3	.8244E-02	.2787E-02	-.9749E-02	-.1993E+00
4	1	1	.6178E-02	-.9563E-09	-.5460E-02	
9	2	1	.3745E-02	.8701E-03	-.8819E-21	
4	3	1	.6009E-02	.2570E-02	-.5460E-02	
3	2	1	.9039E-02	.2031E-02	-.1892E-01	
3	1	2	.7413E-02	-.6473E-09	-.1022E-01	
9	1	2	.3613E-02	.5069E-12	-.1848E-03	
5	3	2	.3799E-02	.1760E-02	-.1652E-03	
3	3	2	.7295E-02	.3082E-02	-.1063E-01	
4	1	3	.4538E-02	-.9542E-09	-.3997E-02	
5	2	3	.3501E-02	.8296E-03	-.3207E-03	
4	3	3	.4582E-02	.1998E-02	-.3928E-02	
3	2	3	.6298E-02	.1348E-02	-.9813E-02	

STRESSES FOR BRICKM ELEMENT NO. 3 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
19	.17E+01	0.	0.	-.13E+04	-.11E+04	-.11E+04	.20E+01	-.11E+02	-.96E+01	-.11E+04	-.11E+04	-.13E+04	.12E+03
				-.13E-01	.62E-02	.40E-02	.32E-03	-.17E-02	-.15E-02	.64E-02	.37E-02	-.13E-01	.19E-01
20	.24E+01	0.	0.	-.15E+04	-.15E+04	-.16E+04	.33E+00	.17E+00	.91E+02	-.15E+04	-.15E+04	-.17E+04	.99E+02
				-.46E-02	.17E-02	-.73E-03	.52E-04	.27E-04	.14E-01	.48E-02	.17E-02	-.18E-01	.15E-01
21	.23E+01	.94E+00	0.	-.16E+04	-.15E+04	-.15E+04	-.23E+02	.41E+02	.98E+02	-.15E+04	-.15E+04	-.17E+04	.11E+03
				-.43E-02	.13E-02	-.74E-03	-.36E-02	.64E-02	.16E-01	.59E-02	.17E-02	-.11E-01	.17E-01
22	.16E+01	.66E+00	0.	-.13E+04	-.11E+04	-.11E+04	-.69E+02	-.99E+01	-.16E+02	-.11E+04	-.11E+04	-.13E+04	.11E+03
				-.94E-02	.32E-02	.45E-02	-.11E-01	-.86E-03	-.25E-02	.52E-02	.46E-02	-.12E-01	.17E-01
23	.17E+01	0.	.46E+00	-.13E+04	-.12E+04	-.12E+04	.91E+00	-.28E+01	.12E+03	-.12E+04	-.12E+04	-.14E+04	.12E+03
				-.61E-02	.39E-02	.86E-04	.14E-03	-.32E-03	.19E-01	.64E-02	.39E-02	-.13E-01	.20E-01
24	.24E+01	0.	.46E+00	-.12E+04	-.12E+04	-.12E+04	.35E+00	.95E-01	.36E+02	-.12E+04	-.12E+04	-.13E+04	.37E+02
				-.18E-02	.16E-02	-.66E-03	.55E-04	.15E-04	.57E-02	.17E-02	.16E-02	-.41E-02	.58E-02
29	.23E+01	.94E+00	.46E+00	-.12E+04	-.12E+04	-.12E+04	-.68E+01	.17E+02	.40E+02	-.12E+04	-.12E+04	-.13E+04	.47E+02
				-.17E-02	.18E-02	-.66E-03	-.18E-02	.27E-02	.64E-02	.27E-02	.14E-02	-.47E-02	.74E-02
26	.16E+01	.66E+00	.46E+00	-.13E+04	-.12E+04	-.13E+04	-.38E+02	.40E+02	.18E+03	-.12E+04	-.14E+04	-.14E+04	.12E+03
				-.48E-02	.29E-02	-.63E-03	-.60E-02	.63E-02	.16E-01	.69E-02	.39E-02	-.12E-01	.18E-01
27	.20E+01	.41E+00	.23E+00	-.14E+04	-.13E+04	-.13E+04	-.14E+02	.87E+01	.64E+02	-.12E+04	-.13E+04	-.14E+04	.84E+02
				-.49E-02	.24E-02	.35E-02	-.22E-02	.14E-02	.18E-01	.59E-02	.26E-02	-.74E-02	.13E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 4 MATERIAL = 1

I	J	K	U	V	W	H
3	3	1	.9492E-02	.3927E-02	-.1092E-01	-.1811E+00
5	3	1	.3808E-02	.1801E-02	.3344E-21	-.2432E+00
5	5	1	.3422E-02	.3422E-02	.1568E-21	-.2450E+00
3	5	1	.7777E-02	.7777E-02	-.1092E-01	-.1856E+00
3	3	3	.6244E-02	.2767E-02	-.9745E-02	-.1995E+00
5	3	3	.3661E-02	.1733E-02	-.3231E-03	-.1931E+00
5	5	3	.3304E-02	.3304E-02	-.3249E-03	-.1959E+00
3	3	3	.9321E-02	.9321E-02	-.1021E-01	-.1993E+00
4	3	1	.6009E-02	.2570E-02	-.5460E-02	
5	4	1	.3821E-02	.2702E-02	-.8996E-21	
4	5	1	.5101E-02	.5101E-02	-.5460E-02	
3	4	1	.8862E-02	.5758E-02	-.1092E-01	
3	3	2	.7295E-02	.3082E-02	-.1053E-01	
5	3	2	.3799E-02	.1788E-02	-.1562E-03	
5	5	2	.3383E-02	.3383E-02	-.1669E-03	
3	5	2	.6214E-02	.6214E-02	-.1140E-01	
4	3	3	.4582E-02	.1998E-02	-.3928E-02	
5	4	3	.3668E-02	.2609E-02	-.3254E-03	
4	5	3	.3964E-02	.3964E-02	-.4342E-02	
3	4	3	.6020E-02	.3980E-02	-.9905E-02	

STRESSES FOR BRICKH ELEMENT NO. 4 MATERIAL = 1

PCINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
28	.16E+01	.66E+00	0.	-.13E+04	-.11E+04	-.11E+04	-.69E+02	-.55E+01	-.16E+02	-.11E+04	-.11E+04	-.13E+04	.11E+03
				-.94E-02	.30E-02	.45E-02	-.11E-01	-.86E-03	-.25E-02	.51E-02	.46E-02	-.12E-01	.17E-01
29	.23E+01	.94E+00	0.	-.16E+04	-.15E+04	-.15E+04	-.23E+02	.41E+02	.98E+02	-.15E+04	-.15E+04	-.17E+04	.11E+03
				-.43E-02	.13E-02	-.74E-03	-.36E-02	.65E-02	.15E-01	.59E-02	.17E-02	-.11E-01	.17E-01
30	.17E+01	.17E+01	0.	-.16E+04	-.16E+04	-.16E+04	-.39E+02	.64E+02	.64E+02	-.15E+04	-.15E+04	-.17E+04	.96E+02
				-.14E-02	-.13E-02	-.74E-03	-.62E-02	.10E-01	.10E-01	.48E-02	.18E-02	-.18E-01	.15E-01
31	.12E+01	.12E+01	0.	-.12E+04	-.12E+04	-.11E+04	-.12E+03	-.12E+02	-.28E+02	-.11E+04	-.11E+04	-.13E+04	.12E+03
				-.25E-02	-.23E-02	.34E-02	-.19E-01	-.20E-02	-.44E-02	.73E-02	.35E-02	-.12E-01	.20E-01
32	.16E+01	.66E+00	.46E+00	-.13E+04	-.12E+04	-.13E+04	-.36E+02	.45E+02	.18E+03	-.12E+04	-.12E+04	-.14E+04	.12E+03
				-.48E-02	.21E-02	-.64E-03	-.56E-02	.71E-02	.16E-01	.60E-02	.30E-02	-.12E-01	.18E-01
33	.23E+01	.94E+00	.46E+00	-.12E+04	-.12E+04	-.12E+04	-.69E+01	.17E+02	.40E+02	-.12E+04	-.12E+04	-.13E+04	.47E+02
				-.17E-02	.18E-02	-.66E-03	-.11E-02	.27E-02	.64E-02	.27E-02	.14E-02	-.47E-02	.74E-02
34	.17E+01	.17E+01	.46E+00	-.12E+04	-.12E+04	-.12E+04	-.18E+02	.34E+02	.34E+02	-.12E+04	-.12E+04	-.13E+04	.40E+02
				.21E-03	.30E-03	-.66E-03	-.28E-02	.54E-02	.54E-02	.29E-02	.17E-02	-.47E-02	.76E-02
35	.12E+01	.12E+01	.46E+00	-.13E+04	-.13E+04	-.13E+04	-.71E+02	.88E+02	.79E+02	-.12E+04	-.12E+04	-.14E+04	.12E+03
				-.89E-03	-.68E-03	-.25E-02	-.11E-01	.14E-01	.12E-01	.55E-02	.45E-02	-.14E-01	.19E-01
36	.17E+01	.11E+01	.23E+00	-.13E+04	-.13E+04	-.13E+04	-.42E+02	.39E+02	.55E+02	-.12E+04	-.13E+04	-.14E+04	.84E+02
				-.28E-02	.80E-03	.29E-02	-.67E-02	.62E-02	.86E-02	.57E-02	.27E-02	-.75E-02	.13E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 5 MATERIAL = 1

I	J	K	U	V	W	H
1	1	3	.1519E-01	.3898E-09	-.2284E-01	-.1823E+00
3	1	3	.8448E-02	.3615E-09	-.9979E-02	-.1970E+00
3	3	3	.6244E-02	.2767E-02	-.9745E-02	-.1995E+00
1	3	3	.1411E-01	.7230E-02	-.2091E-01	-.1803E+00
1	1	5	.5896E-02	.2674E-09	-.1288E-01	-.1733E+00
3	1	5	.3448E-02	.2910E-09	-.5014E-02	-.1945E+00
3	3	5	.4763E-02	.2505E-02	-.6878E-02	-.1980E+00
1	3	5	.8822E-02	.8009E-02	-.1287E-01	-.2012E+00
2	1	3	.9539E-02	-.1042E-08	-.1530E-01	
3	2	3	.8298E-02	.1348E-02	-.9613E-02	
2	3	3	.8976E-02	.3978E-02	-.1510E-01	
1	2	3	.1473E-01	.3947E-02	-.2136E-01	
1	1	4	.9158E-02	-.1026E-08	-.1810E-01	
3	1	4	.4497E-02	-.1097E-08	-.7208E-02	
3	3	4	.5328E-02	.2203E-02	-.8244E-02	
1	3	4	.9629E-02	.7339E-02	-.1701E-01	
2	1	5	.4214E-02	-.4505E-09	-.7780E-02	
3	2	5	.3895E-02	.7938E-03	-.5469E-02	
2	3	5	.6145E-02	.3939E-02	-.1052E-01	
1	2	5	.5873E-02	.4190E-02	-.1270E-01	

STRESSES FOR BRICKH ELEMENT NO. 5 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
37	.94E+00	0.	.46E+00	-.14E+04	-.88E+03	-.12E+04	-.14E+02	.21E+02	.74E+02	-.86E+03	-.12E+04	-.14E+04	.28E+03
				-.18E-01	.23E-01	-.26E-02	-.22E-02	.34E-02	.12E-01	.23E-01	-.76E-03	-.28E-01	.43E-01
38	.17E+01	0.	.46E+00	-.13E+04	-.12E+04	-.12E+04	-.17E-01	.27E+01	.47E+02	-.12E+04	-.12E+04	-.13E+04	.79E+02
				-.48E-02	.39E-02	.44E-02	-.28E-05	.43E-03	.75E-02	.57E-02	.38E-02	-.62E-02	.12E-01
39	.16E+01	.66E+00	.46E+00	-.13E+04	-.12E+04	-.12E+04	-.22E+02	.14E+02	.65E+02	-.12E+04	-.12E+04	-.13E+04	.90E+02
				-.36E-02	.37E-02	.30E-02	-.35E-02	.22E-02	.10E-01	.58E-02	.41E-02	-.68E-02	.13E-01
40	.87E+00	.36E+00	.46E+00	-.13E+04	-.10E+04	-.11E+04	-.18E+03	.88E+02	.81E+01	-.90E+03	-.11E+04	-.14E+04	.24E+03
				-.13E-01	.11E-01	.51E-02	-.26E-01	.14E-01	.97E-03	.19E-01	.27E-02	-.19E-01	.38E-01
41	.15E+01	0.	.12E+01	-.12E+04	-.92E+03	-.13E+04	-.26E+02	.57E+02	.21E+03	-.91E+03	-.10E+04	-.15E+04	.28E+03
				-.95E-02	.14E-01	-.14E-01	-.41E-02	.90E-02	.33E-01	.14E-01	.46E-02	-.29E-01	.44E-01
42	.20E+01	0.	.12E+01	-.12E+04	-.12E+04	-.12E+04	.33E+01	.24E+01	.39E+02	-.12E+04	-.12E+04	-.13E+04	.43E+02
				-.14E-02	.82E-03	.16E-02	.52E-03	.38E-03	.61E-02	.35E-02	.79E-03	-.33E-02	.68E-02
43	.17E+01	.84E+00	.12E+01	-.13E+04	-.12E+04	-.12E+04	-.31E+02	.93E+02	.81E+02	-.11E+04	-.12E+04	-.14E+04	.12E+03
				-.55E-02	.56E-02	.96E-03	-.48E-02	.84E-02	.13E-01	.82E-02	.34E-02	-.11E-01	.19E-01
44	.12E+01	.34E+00	.12E+01	-.13E+04	-.14E+04	-.11E+04	-.51E+02	.11E+03	-.24E+02	-.11E+04	-.13E+04	-.15E+04	.20E+03
				-.33E-02	-.12E-01	.13E-01	-.88E-02	.17E-01	-.38E-02	.16E-01	-.28E-02	-.15E-01	.32E-01
45	.15E+01	.28E+00	.84E+00	-.13E+04	-.11E+04	-.12E+04	-.30E+02	.32E+02	.77E+02	-.11E+04	-.12E+04	-.13E+04	.11E+03
				-.67E-02	.51E-02	.11E-02	-.60E-02	.51E-02	.12E-01	.64E-02	.41E-02	-.11E-01	.17E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 6 MATERIAL = 1

I	J	K	U	V	W	H
1	3	3	.1411E-01	.7230E-02	-.2051E-01	-.1803E+00
3	3	3	.6244E-02	.2767E-02	-.9745E-02	-.1999E+00
3	5	3	.5321E-02	.5321E-02	-.1021E-01	-.1993E+00
1	5	3	.1131E-01	.1131E-01	-.1945E-01	-.1861E+00
1	3	5	.6622E-02	.8009E-02	-.1257E-01	-.2012E+00
3	3	5	.4763E-02	.2505E-02	-.6876E-02	-.1980E+00
3	5	5	.5506E-02	.5506E-02	-.9917E-02	-.2033E+00
1	5	5	.9039E-02	.9039E-02	-.1369E-01	-.2161E+00
2	3	3	.8976E-02	.3978E-02	-.1510E-01	
3	4	3	.6828E-02	.3980E-02	-.9985E-02	
2	5	3	.7435E-02	.7435E-02	-.1551E-01	
1	4	3	.1311E-01	.9361E-02	-.1987E-01	
1	3	4	.9629E-02	.7339E-02	-.1701E-01	
3	3	4	.5328E-02	.2283E-02	-.8244E-02	
3	5	4	.5162E-02	.5162E-02	-.9940E-02	
1	5	4	.9969E-02	.9969E-02	-.1788E-01	
2	3	5	.6145E-02	.3939E-02	-.1062E-01	
3	4	5	.5592E-02	.4388E-02	-.8374E-02	
2	5	5	.7561E-02	.7561E-02	-.1212E-01	
1	4	5	.8447E-02	.9711E-02	-.1356E-01	

STRESSES FOR BRICKH ELEMENT NO. 6 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
46	.97E+00	.36E+00	.46E+00	-.13E+04	-.11E+04	-.11E+04	-.15E+03	.64E+02	.91E+01	-.95E+03	-.11E+04	-.14E+04	.22E+03
				-.14E-01	.69E-02	.50E-02	-.23E-01	.13E-01	.14E-02	.15E-01	.25E-02	-.19E-01	.35E-01
47	.16E+01	.66E+00	.46E+00	-.13E+04	-.12E+04	-.12E+04	-.29E+02	.18E+02	.63E+02	-.12E+04	-.12E+04	-.13E+04	.79E+02
				-.36E-02	.23E-02	.38E-02	-.31E-02	.29E-02	.99E-02	.58E-02	.32E-02	-.67E-02	.12E-01
48	.12E+01	.12E+01	.46E+00	-.13E+04	-.13E+04	-.12E+04	-.68E+02	.66E+02	.59E+02	-.12E+04	-.12E+04	-.14E+04	.97E+02
				-.11E-01	.31E-03	.18E-02	-.95E-02	.11E-01	.93E-02	.59E-02	.46E-02	-.93E-02	.15E-01
49	.67E+00	.67E+00	.46E+00	-.12E+04	-.12E+04	-.11E+04	-.21E+03	.20E+02	.58E+01	-.98E+03	-.11E+04	-.14E+04	.21E+03
				-.57E-03	-.13E-02	.50E-02	-.33E-01	.31E-02	.79E-03	.15E-01	.51E-02	-.18E-01	.33E-01
50	.12E+01	.34E+00	.12E+01	-.14E+04	-.15E+04	-.11E+04	.51E+01	.58E+02	.11E+02	-.11E+04	-.14E+04	-.15E+04	.18E+03
				-.67E-02	-.16E-01	.11E-01	.81E-03	.91E-02	.17E-02	.12E-01	-.67E-02	-.17E-01	.29E-01
51	.17E+01	.64E+00	.12E+01	-.13E+04	-.12E+04	-.12E+04	-.23E+02	.51E+02	.82E+02	-.12E+04	-.12E+04	-.14E+04	.11E+03
				-.58E-02	.42E-02	.34E-03	-.36E-02	.80E-02	.13E-01	.74E-02	.26E-02	-.11E-01	.18E-01
52	.11E+01	.11E+01	.12E+01	-.13E+04	-.13E+04	-.12E+04	-.77E+02	.57E+02	.52E+02	-.12E+04	-.12E+04	-.14E+04	.12E+03
				-.32E-02	-.24E-02	.50E-02	-.12E-01	.89E-02	.82E-02	.73E-02	.32E-02	-.11E-01	.18E-01
53	.67E+00	.67E+00	.12E+01	-.14E+04	-.14E+04	-.12E+04	-.11E+02	-.24E+00	-.29E+01	-.12E+04	-.14E+04	-.14E+04	.11E+03
				-.32E-02	-.61E-02	.11E-01	-.17E-02	-.37E-04	-.45E-03	.11E-01	-.29E-02	-.63E-02	.17E-01
54	.11E+01	.70E+00	.84E+00	-.13E+04	-.13E+04	-.12E+04	-.84E+02	.46E+02	.45E+02	-.12E+04	-.12E+04	-.14E+04	.11E+03
				-.47E-02	-.70E-04	.47E-02	-.13E-01	.73E-02	.71E-02	.66E-02	.43E-02	-.11E-01	.18E-01

DISPLACEMENTS FOR BRICKM ELEMENT NO. 7 MATERIAL = 1

I	J	K	U	V	W	M
3	1	3	.6440E-02	.3616E-09	-.9979E-02	-.1970E+00
5	1	3	.3429E-02	-.1099E-12	-.3287E-03	-.1934E+00
5	3	3	.3661E-02	.1733E-02	-.3231E-03	-.1931E+00
3	3	3	.6244E-02	.2767E-02	-.9745E-02	-.1995E+00
3	1	5	.3448E-02	.2910E-09	-.5014E-02	-.1945E+00
5	1	5	.3076E-02	-.1167E-12	-.7247E-03	-.1993E+00
5	3	5	.3487E-02	.1717E-02	-.7340E-03	-.2075E+00
3	3	5	.4763E-02	.2505E-02	-.6878E-02	-.1980E+00
4	1	3	.4538E-02	-.9542E-09	-.3997E-02	
5	2	3	.3501E-02	.8296E-03	-.3207E-03	
4	3	3	.4582E-02	.1998E-02	-.3928E-02	
3	2	3	.6298E-02	.1348E-02	-.9813E-02	
3	1	4	.4497E-02	-.1097E-08	-.7208E-02	
5	1	4	.3169E-02	.5381E-12	-.5255E-03	
5	3	4	.3491E-02	.1688E-02	-.5324E-0	
3	3	4	.5320E-02	.2283E-02	-.8244E-02	
4	1	5	.3295E-02	-.5067E-09	-.2822E-02	
5	2	5	.3200E-02	.8047E-03	-.7261E-03	
4	3	5	.3927E-02	.1670E-02	-.3776E-02	
3	2	5	.3892E-02	.7938E-03	-.5469E-02	

STRESSES FOR BRICKM ELEMENT NO. 7 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
55	.17E+01	0.	.46E+00	-.13E+04	-.12E+04	-.12E+04	.91E+00	-.20E+01	.92E+02	-.12E+04	-.12E+04	-.14E+04	.11E+03
				-.61E-02	.39E-02	.25E-02	.14E-03	-.32E-03	.15E-01	.66E-02	.39E-02	-.10E-01	.17E-01
56	.24E+01	0.	.46E+00	-.12E+04	-.12E+04	-.12E+04	.35E+00	.95E-01	.37E+02	-.12E+04	-.12E+04	-.13E+04	.38E+02
				-.18E-02	.16E-02	-.56E-03	.55E-04	.15E-04	.58E-02	.18E-02	.16E-02	-.42E-02	.59E-02
57	.23E+01	.94E+00	.46E+00	-.12E+04	-.12E+04	-.12E+04	-.66E+01	.17E+02	.41E+02	-.12E+04	-.12E+04	-.13E+04	.47E+02
				-.17E-02	.18E-02	-.58E-03	-.10E-02	.27E-02	.65E-02	.28E-02	.14E-02	-.47E-02	.75E-02
58	.18E+01	.86E+00	.46E+00	-.13E+04	-.12E+04	-.12E+04	-.38E+02	.29E+02	.91E+02	-.12E+04	-.12E+04	-.14E+04	.11E+03
				-.48E-02	.29E-02	.26E-02	-.60E-02	.40E-02	.14E-01	.70E-02	.39E-02	-.10E-01	.17E-01
59	.20E+01	0.	.12E+01	-.12E+04	-.12E+04	-.12E+04	.35E+01	.32E+01	.54E+02	-.12E+04	-.12E+04	-.13E+04	.54E+02
				-.53E-03	.82E-03	.50E-04	.56E-03	.51E-03	.85E-02	.40E-02	.78E-03	-.45E-02	.85E-02
60	.24E+01	0.	.12E+01	-.13E+04	-.12E+04	-.13E+04	.54E+00	.13E+00	.57E+02	-.12E+04	-.12E+04	-.13E+04	.57E+02
				-.11E-02	.15E-02	-.53E-03	.85E-04	.21E-04	.90E-02	.37E-02	.15E-02	-.54E-02	.91E-02
61	.23E+01	.94E+00	.12E+01	-.13E+04	-.13E+04	-.13E+04	.98E+01	.27E+02	.84E+02	-.12E+04	-.13E+04	-.14E+04	.72E+02
				-.12E-02	.24E-02	-.53E-03	.92E-03	.42E-02	.10E-01	.54E-02	.13E-02	-.60E-02	.11E-01
62	.17E+01	.64E+00	.12E+01	-.13E+04	-.12E+04	-.12E+04	-.34E+02	.34E+02	.59E+02	-.12E+04	-.12E+04	-.14E+04	.81E+02
				-.38E-02	.29E-02	.16E-02	-.53E-02	.54E-02	.93E-02	.51E-02	.33E-02	-.77E-02	.13E-01
63	.21E+01	.42E+00	.84E+00	-.13E+04	-.12E+04	-.13E+04	-.32E+01	.70E+01	.62E+02	-.12E+04	-.12E+04	-.13E+04	.64E+02
				-.25E-02	.19E-02	-.60E-03	-.50E-03	.11E-02	.98E-02	.35E-02	.19E-02	-.66E-02	.10E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 8 MATERIAL = 1

I	J	K	U	V	W	H
3	3	3	.6244E-02	.2767E-02	-.9745E-02	-.1995E+00
4	3	3	.3661E-02	.1733E-02	-.3231E-03	-.1931E+00
5	5	3	.3304E-02	.3304E-02	-.3249E-03	-.1959E+00
3	5	3	.5321E-02	.5321E-02	-.1021E-01	-.1993E+00
3	3	5	.4763E-02	.2503E-02	-.6878E-02	-.1980E+00
5	3	5	.3487E-02	.1717E-02	-.7340E-03	-.2075E+00
5	5	5	.3302E-02	.3302E-02	-.7423E-03	-.2090E+00
3	5	5	.5506E-02	.5505E-02	-.8917E-02	-.2033E+00
4	3	3	.4582E-02	.1998E-02	-.3928E-02	
5	4	3	.3668E-02	.2609E-02	-.3254E-03	
4	5	3	.3964E-02	.3964E-02	-.4342E-02	
3	4	3	.6020E-02	.3980E-02	-.9905E-02	
3	3	4	.5320E-02	.2283E-02	-.8244E-02	
5	3	4	.3491E-02	.1688E-02	-.5324E-03	
5	5	4	.3234E-02	.3234E-02	-.5388E-03	
3	5	4	.5162E-02	.5162E-02	-.9940E-02	
4	3	5	.3927E-02	.1670E-02	-.3776E-02	
5	4	5	.3613E-02	.2612E-02	-.7414E-03	
4	5	5	.3953E-02	.3953E-02	-.5265E-02	
3	4	5	.5592E-02	.4008E-02	-.8378E-02	

STRESSES FOR BRICKH ELEMENT NO. 8 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
64	.16E+01	.66E+00	.46E+00	-.13E+04	-.12E+04	-.12E+04	-.36E+02	.30E+02	.89E+02	-.12E+04	-.12E+04	-.14E+04	.11E+03
				-.48E-02	.21E-02	.27E-02	-.56E-02	.47E-02	.14E-01	.69E-02	.31E-02	-.18E-01	.17E-01
65	.23E+01	.94E+00	.46E+00	-.12E+04	-.12E+04	-.12E+04	-.69E+01	.17E+02	.41E+02	-.12E+04	-.12E+04	-.13E+04	.47E+02
				-.17E-02	.18E-02	-.58E-03	-.11E-02	.27E-02	.64E-02	.28E-02	.14E-02	-.47E-02	.75E-02
66	.17E+01	.17E+01	.46E+00	-.12E+04	-.12E+04	-.12E+04	-.18E+02	.34E+02	.34E+02	-.12E+04	-.12E+04	-.13E+04	.49E+02
				.21E-03	.30E-03	-.59E-03	-.28E-02	.54E-02	.54E-02	.30E-02	.17E-02	-.47E-02	.77E-02
67	.12E+01	.12E+01	.46E+00	-.13E+04	-.13E+04	-.12E+04	-.71E+02	.75E+02	.67E+02	-.12E+04	-.12E+04	-.14E+04	.11E+03
				-.89E-03	-.88E-03	.12E-02	-.11E-01	.12E-01	.11E-01	.64E-02	.47E-02	-.11E-01	.18E-01
68	.17E+01	.64E+00	.12E+01	-.13E+04	-.12E+04	-.12E+04	-.26E+02	.31E+02	.60E+02	-.12E+04	-.12E+04	-.14E+04	.79E+02
				-.41E-02	.15E-02	.15E-02	-.41E-02	.49E-02	.95E-02	.47E-02	.19E-02	-.77E-02	.12E-01
69	.23E+01	.94E+00	.12E+01	-.13E+04	-.13E+04	-.13E+04	.53E+01	.27E+02	.63E+02	-.12E+04	-.13E+04	-.14E+04	.72E+02
				-.11E-02	.24E-02	-.53E-03	.84E-03	.42E-02	.10E-01	.54E-02	.14E-02	-.68E-02	.11E-01
70	.17E+01	.17E+01	.12E+01	-.13E+04	-.13E+04	-.13E+04	-.14E+02	.51E+02	.52E+02	-.13E+04	-.13E+04	-.14E+04	.73E+02
				.46E-03	.54E-03	-.54E-03	-.22E-02	.81E-02	.81E-02	.52E-02	.16E-02	-.63E-02	.11E-01
71	.11E+01	.11E+01	.12E+01	-.13E+04	-.13E+04	-.12E+04	-.69E+02	.47E+02	.43E+02	-.12E+04	-.12E+04	-.14E+04	.10E+03
				-.26E-02	.19E-02	.47E-02	-.11E-01	.74E-02	.68E-02	.66E-02	.32E-02	-.94E-02	.16E-01
72	.17E+01	.11E+01	.83E+00	-.13E+04	-.13E+04	-.13E+04	-.38E+02	.39E+02	.61E+02	-.12E+04	-.12E+04	-.14E+04	.79E+02
				-.19E-02	.11E-02	-.46E-03	-.48E-02	.62E-02	.96E-02	.41E-02	.24E-02	-.77E-02	.12E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 9 MATERIAL = 1

I	J	K	U	V	W	H
1	1	5	.5896E-02	.2674E-09	-.1288E-01	-.1733E+00
3	1	5	.3448E-02	.2918E-09	-.9814E-02	-.1949E+00
3	3	5	.4763E-02	.2585E-02	-.6878E-02	-.1988E+00
1	3	5	.8622E-02	.8089E-02	-.1287E-01	-.2012E+00
1	1	7	.4941E-02	.1085E-09	-.3282E-02	-.1759E+00
3	1	7	.3332E-02	.1165E-09	-.2157E-02	-.1971E+00
3	3	7	.4643E-02	.3581E-02	-.4823E-02	-.2057E+00
1	3	7	.4778E-02	.7092E-02	-.6811E-02	-.2229E+00
2	1	5	.4214E-02	-.4505E-09	-.7780E-02	
3	2	5	.3899E-02	.7938E-03	-.5489E-02	
2	3	5	.6145E-02	.3939E-02	-.1062E-01	
1	2	5	.9879E-02	.4158E-02	-.1270E-01	
1	1	6	.4997E-02	-.3217E-09	-.7319E-02	
3	1	6	.3268E-02	-.4937E-09	-.3311E-02	
3	3	6	.4801E-02	.3210E-02	-.5753E-02	
1	3	6	.9387E-02	.7086E-02	-.9842E-02	
2	1	7	.3744E-02	-.1294E-09	-.2696E-02	
3	2	7	.3968E-02	.1872E-02	-.2821E-02	
2	3	7	.5097E-02	.5258E-02	-.5286E-02	
1	2	7	.4794E-02	.4196E-02	-.4973E-02	

STRESSES FOR BRICKH ELEMENT NO. 9 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
73	.19E+01	0.	.12E+01	-.12E+04	-.92E+03	-.13E+04	-.20E+02	.57E+02	.22E+03	-.91E+03	-.10E+04	-.19E+04	.28E+03
				-.95E-02	.14E-01	-.13E-01	-.41E-02	.90E-02	.35E-01	.14E-01	.59E-02	-.29E-01	.44E-01
74	.28E+01	0.	.12E+01	-.12E+04	-.12E+04	-.12E+04	.33E+01	.24E+01	.44E+02	-.12E+04	-.12E+04	-.13E+04	.49E+02
				-.14E-02	.82E-03	.18E-02	.52E-03	.38E-03	.69E-02	.41E-02	.80E-03	-.36E-02	.77E-02
75	.17E+01	.64E+00	.12E+01	-.13E+04	-.12E+04	-.12E+04	-.31E+02	.60E+02	.87E+02	-.11E+04	-.12E+04	-.14E+04	.13E+03
				-.55E-02	.56E-02	.70E-03	-.48E-02	.94E-02	.14E-01	.87E-02	.33E-02	-.11E-01	.20E-01
76	.12E+01	.34E+00	.12E+01	-.13E+04	-.14E+04	-.11E+04	-.91E+02	.92E+02	-.11E+02	-.11E+04	-.13E+04	-.19E+04	.18E+03
				-.33E-02	-.12E-01	.11E-01	-.80E-02	.14E-01	-.17E-02	.13E-01	-.24E-02	-.15E-01	.28E-01
77	.21E+01	0.	.19E+01	-.14E+04	-.98E+03	-.11E+04	-.58E+02	.39E+01	.13E+03	-.97E+03	-.10E+04	-.14E+04	.23E+03
				-.21E-01	.11E-01	.36E-02	-.92E-02	.61E-03	.28E-01	.12E-01	.69E-02	-.25E-01	.37E-01
78	.23E+01	0.	.19E+01	-.13E+04	-.12E+04	-.12E+04	.84E+01	-.12E+01	.47E+02	-.12E+04	-.12E+04	-.13E+04	.40E+02
				-.26E-03	.86E-03	.32E-03	.13E-02	-.19E-03	.74E-02	.38E-02	.88E-03	-.37E-02	.75E-02
79	.19E+01	.69E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.62E+02	.32E+02	.36E+02	-.12E+04	-.13E+04	-.14E+04	.79E+02
				-.27E-02	.69E-03	.35E-02	-.98E-02	.50E-02	.57E-02	.58E-02	.40E-02	-.79E-02	.12E-01
80	.15E+01	.33E+00	.19E+01	-.14E+04	-.15E+04	-.13E+04	.24E+02	-.23E+02	.20E+02	-.13E+04	-.14E+04	-.15E+04	.97E+02
				-.16E-02	-.79E-02	.60E-02	.38E-02	-.37E-02	.32E-02	.65E-02	-.12E-02	-.88E-02	.15E-01
81	.19E+01	.32E+00	.16E+01	-.13E+04	-.12E+04	-.12E+04	-.52E+02	.52E+02	.67E+02	-.12E+04	-.12E+04	-.14E+04	.90E+02
				-.30E-02	.12E-02	.18E-02	-.82E-02	.82E-02	.11E-01	.59E-02	.35E-02	-.94E-02	.15E-01

DISPLACEMENTS FOR BRICKM ELEMENT NO. 10 MATERIAL = 1

I	J	K	U	V	W	H
1	3	5	.6622E-02	.8009E-02	-.1267E-01	-.2012E+00
3	3	5	.4783E-02	.8995E-02	-.6878E-02	-.1983E+00
3	5	5	.5506E-02	.5506E-02	-.8917E-02	-.2033E+00
1	5	5	.9039E-02	.9039E-02	-.1369E-01	-.2161E+00
1	3	7	.4776E-02	.7092E-02	-.6011E-02	-.2225E+00
3	3	7	.4643E-02	.3501E-02	-.4823E-02	-.2057E+00
3	5	7	.5638E-02	.5638E-02	-.5313E-02	-.2127E+00
1	5	7	.8346E-02	.8346E-02	-.7919E-02	-.2188E+00
2	3	5	.6145E-02	.3939E-02	-.1062E-01	
3	4	5	.5592E-02	.4080E-02	-.8378E-02	
2	5	5	.7561E-02	.7561E-02	-.1212E-01	
1	4	5	.8447E-02	.9711E-02	-.1356E-01	
1	3	6	.5387E-02	.7806E-02	-.9042E-02	
3	3	6	.4881E-02	.3210E-02	-.5763E-02	
3	5	6	.6C37E-02	.6037E-02	-.7824E-02	
1	5	6	.8824E-02	.8824E-02	-.1050E-01	
2	3	7	.5097E-02	.5258E-02	-.5286E-02	
3	4	7	.5425E-02	.5010E-02	-.5095E-02	
2	5	7	.7231E-02	.7231E-02	-.6865E-02	
1	4	7	.6247E-02	.9256E-02	-.7336E-02	

STRESSES FOR BRICKM ELEMENT NO. 10 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
82	.12E+01	.34E+00	.12E+01	-.14E+04	-.15E+04	-.12E+04	.51E+01	.41E+02	.24E+02	-.12E+04	-.14E+04	-.15E+04	.17E+03
				-.67E-02	-.16E-01	.90E-02	.81E-03	.65E-02	.37E-02	.96E-02	-.69E-02	-.17E-01	.26E-01
83	.17E+01	.64E+00	.12E+01	-.13E+04	-.12E+04	-.12E+04	-.23E+02	.57E+02	.80E+02	-.12E+04	-.12E+04	-.14E+04	.12E+03
				-.58E-02	.42E-02	.69E-03	-.38E-02	.95E-02	.14E-01	.79E-02	.24E-02	-.11E-01	.19E-01
84	.11E+01	.11E+01	.12E+01	-.13E+04	-.13E+04	-.12E+04	-.77E+02	.54E+02	.49E+02	-.12E+04	-.12E+04	-.14E+04	.11E+03
				-.32E-02	-.24E-02	.47E-02	-.12E-01	.86E-02	.70E-02	.69E-02	.32E-02	-.11E-01	.18E-01
85	.67E+00	.67E+00	.12E+01	-.14E+04	-.14E+04	-.12E+04	-.11E+02	.11E+02	.82E+01	-.12E+04	-.14E+04	-.14E+04	.12E+03
				-.32E-02	-.61E-02	.93E-02	-.17E-02	.17E-02	.13E-02	.94E-02	-.38E-02	-.64E-02	.16E-01
86	.15E+01	.33E+00	.19E+01	-.15E+04	-.14E+04	-.13E+04	.27E+02	-.22E+02	.31E+02	-.13E+04	-.14E+04	-.15E+04	.84E+02
				-.48E-02	-.24E-02	.58E-02	.43E-02	-.34E-02	.48E-02	.65E-02	-.12E-02	-.67E-02	.13E-01
87	.19E+01	.65E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.45E+02	.30E+02	.36E+02	-.12E+04	-.13E+04	-.14E+04	.78E+02
				-.33E-02	-.20E-02	.35E-02	-.71E-02	.47E-02	.57E-02	.48E-02	.97E-03	-.75E-02	.12E-01
88	.12E+01	.12E+01	.19E+01	-.14E+04	-.14E+04	-.13E+04	-.46E+02	.25E+02	.23E+02	-.13E+04	-.13E+04	-.14E+04	.89E+02
				-.35E-02	-.30E-02	.61E-02	-.73E-02	.39E-02	.36E-02	.66E-02	.38E-03	-.74E-02	.14E-01
89	.67E+00	.67E+00	.19E+01	-.15E+04	-.14E+04	-.13E+04	.21E+02	-.49E+01	-.53E+00	-.13E+04	-.14E+04	-.15E+04	.84E+02
				-.53E-02	-.46E-02	.66E-02	.33E-02	-.78E-03	-.83E-04	.66E-02	-.33E-02	-.67E-02	.13E-01
90	.12E+01	.62E+00	.16E+01	-.14E+04	-.14E+04	-.12E+04	-.39E+02	.26E+02	.18E+02	-.12E+04	-.13E+04	-.14E+04	.89E+02
				-.31E-02	-.35E-02	.67E-02	-.62E-02	.41E-02	.28E-02	.71E-02	-.28E-03	-.69E-02	.14E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 11 MATERIAL = 1

I	J	K	U	V	W	H
3	1	5	.3448E-02	.2910E-09	-.5014E-02	-.1945E+00
5	1	5	.3078E-02	-.1167E-12	-.7267E-03	-.1993E+00
5	3	5	.3487E-02	.1717E-02	-.7340E-03	-.2075E+00
3	3	5	.4763E-02	.2505E-02	-.6878E-02	-.1980E+00
3	1	7	.3332E-02	.1165E-09	-.2157E-02	-.1971E+00
5	1	7	.3089E-02	-.1244E-12	-.1158E-02	-.1914E+00
5	3	7	.3624E-02	.1838E-02	-.1171E-02	-.2078E+00
3	3	7	.4843E-02	.3901E-02	-.4823E-02	-.2057E+00
4	1	5	.3295E-02	-.5067E-09	-.2822E-02	
5	2	5	.3208E-02	.8047E-03	-.7261E-03	
4	3	5	.3927E-02	.1670E-02	-.3776E-02	
3	2	5	.3895E-02	.7938E-03	-.5469E-02	
3	1	6	.3266E-02	-.4937E-09	-.3311E-02	
5	1	6	.3074E-02	.6943E-12	-.9382E-03	
5	3	6	.3562E-02	.1778E-02	-.9509E-03	
3	3	6	.4801E-02	.3210E-02	-.5753E-02	
4	1	7	.3262E-02	-.1205E-09	-.1653E-02	
5	2	7	.3248E-02	.8496E-03	-.1152E-02	
4	3	7	.3997E-02	.2193E-02	-.2588E-02	
3	2	7	.3988E-02	.1072E-02	-.2821E-02	

STRESSES FOR BRICKH ELEMENT NO. 11 MATERIAL = 1

PCINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
91	.20E+01	0.	.12E+01	-.12E+04 -.53E-03	-.12E+04 .82E-03	-.12E+04 .26E-03	.35E+01 .56E-03	.32E+01 .51E-03	.59E+02 .93E-02	-.12E+04 .46E-02	-.12E+04 .79E-03	-.13E+04 -.48E-02	.59E+02 .96E-02
92	.24E+01	0.	.12E+01	-.13E+04 -.11E-02	-.12E+04 .15E-02	-.13E+04 -.57E-03	.54E+00 .85E-04	.13E+00 .21E-04	.57E+02 .90E-02	-.12E+04 .37E-02	-.12E+04 .15E-02	-.13E+04 -.54E-02	.57E+02 .91E-02
93	.23E+01	.94E+00	.12E+01	-.13E+04 -.12E-02	-.13E+04 .24E-02	-.13E+04 -.58E-03	.56E+01 .92E-03	.27E+02 .42E-02	.64E+02 .10E-01	-.12E+04 .53E-02	-.13E+04 .13E-02	-.14E+04 -.60E-02	.72E+02 .11E-01
94	.17E+01	.84E+00	.12E+01	-.13E+04 -.38E-02	-.12E+04 .29E-02	-.12E+04 .92E-03	-.34E+02 -.53E-02	.38E+02 .60E-02	.88E+02 .10E-01	-.12E+04 .53E-02	-.12E+04 .32E-02	-.14E+04 -.85E-02	.87E+02 .14E-01
95	.23E+01	0.	.19E+01	-.12E+04 -.25E-03	-.12E+04 .86E-03	-.12E+04 .34E-03	.84E+01 .13E-02	-.13E+01 -.20E-03	.46E+02 .73E-02	-.12E+04 .38E-02	-.12E+04 .88E-03	-.13E+04 -.37E-02	.47E+02 .74E-02
96	.24E+01	0.	.19E+01	-.12E+04 -.30E-02	-.12E+04 .16E-02	-.12E+04 -.68E-03	.64E+00 .10E-03	.64E-01 .10E-04	.41E+02 .65E-02	-.12E+04 .17E-02	-.12E+04 .16E-02	-.13E+04 -.53E-02	.44E+02 .70E-02
97	.23E+01	.94E+00	.19E+01	-.13E+04 -.18E-02	-.13E+04 .19E-02	-.13E+04 -.60E-03	-.49E+01 -.77E-03	.17E+02 .26E-02	.42E+02 .66E-02	-.13E+04 .29E-02	-.13E+04 .13E-02	-.14E+04 -.48E-02	.49E+02 .77E-02
98	.19E+01	.65E+00	.19E+01	-.13E+04 -.27E-02	-.13E+04 .18E-03	-.13E+04 .35E-02	-.64E+02 -.18E-01	.33E+02 .52E-02	.36E+02 .57E-02	-.12E+04 .49E-02	-.13E+04 .39E-02	-.14E+04 -.78E-02	.01E+02 .13E-01
99	.22E+01	.42E+00	.16E+01	-.13E+04 -.21E-02	-.12E+04 .22E-02	-.13E+04 -.86E-04	-.61E+01 -.95E-03	.11E+02 .18E-02	.58E+02 .92E-02	-.12E+04 .37E-02	-.12E+04 .22E-02	-.13E+04 -.59E-02	.61E+02 .96E-02

DISPLACEMENTS FOR BRICKH ELEMENT NO. 12 MATERIAL = 1

I	J	K	U	V	W	H
3	3	5	.4763E-02	.2505E-02	-.6878E-02	-.1980E+00
5	3	5	.3487E-02	.1717E-02	-.7340E-03	-.2079E+00
5	5	5	.3302E-02	.3302E-02	-.7423E-03	-.2090E+00
3	5	5	.5506E-02	.5506E-02	-.8917E-02	-.2033E+00
3	3	7	.4643E-02	.3501E-02	-.4023E-02	-.2057E+00
5	3	7	.3624E-02	.1830E-02	-.1171E-02	-.2079E+00
5	5	7	.3521E-02	.3521E-02	-.1184E-02	-.2068E+00
3	5	7	.5630E-02	.5630E-02	-.9313E-02	-.2127E+00
4	3	5	.3927E-02	.1670E-02	-.3776E-02	
5	4	5	.3613E-02	.2612E-02	-.7414E-03	
4	5	5	.3953E-02	.3953E-02	-.5265E-02	
3	4	5	.5592E-02	.4086E-02	-.8378E-02	
3	3	6	.4801E-02	.3210E-02	-.5763E-02	
5	3	6	.3562E-02	.1778E-02	-.9509E-03	
5	5	6	.3425E-02	.3425E-02	-.9626E-03	
3	5	6	.6037E-02	.6037E-02	-.7824E-02	
4	3	7	.3997E-02	.2193E-02	-.2588E-02	
5	4	7	.3825E-02	.2792E-02	-.1181E-02	
4	5	7	.4290E-02	.4290E-02	-.3401E-02	
3	4	7	.5425E-02	.5010E-02	-.5895E-02	

STRESSES FOR BRICKH ELEMENT NO. 12 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
100	.17E+01	.64E+00	.12E+01	-.13E+04	-.12E+04	-.12E+04	-.26E+02	.36E+02	.68E+02	-.12E+04	-.12E+04	-.14E+04	.89E+02
				-.41E-02	.15E-02	.88E-03	-.41E-02	.56E-02	.11E-01	.49E-02	.19E-02	-.85E-02	.13E-01
101	.23E+01	.94E+00	.12E+01	-.13E+04	-.13E+04	-.13E+04	.53E+01	.27E+02	.63E+02	-.12E+04	-.13E+04	-.14E+04	.72E+02
				-.11E-02	.24E-02	-.58E-03	.84E-03	.42E-02	.10E-01	.53E-02	.14E-02	-.60E-02	.11E-01
102	.17E+01	.17E+01	.12E+01	-.13E+04	-.13E+04	-.13E+04	-.14E+02	.51E+02	.51E+02	-.13E+04	-.13E+04	-.14E+04	.73E+02
				.46E-03	.54E-03	-.59E-03	-.22E-02	.81E-02	.81E-02	.51E-02	.16E-02	-.63E-02	.11E-01
103	.11E+01	.11E+01	.12E+01	-.13E+04	-.13E+04	-.12E+04	-.69E+02	.46E+02	.42E+02	-.12E+04	-.12E+04	-.14E+04	.97E+02
				-.26E-02	-.18E-02	.40E-02	-.11E-01	.72E-02	.67E-02	.58E-02	.32E-02	-.94E-02	.15E-01
104	.19E+01	.65E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.47E+02	.31E+02	.36E+02	-.12E+04	-.13E+04	-.14E+04	.80E+02
				-.33E-02	-.26E-02	.35E-02	-.74E-02	.49E-02	.57E-02	.48E-02	.75E-03	-.79E-02	.13E-01
105	.23E+01	.94E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.55E+01	.18E+02	.42E+02	-.13E+04	-.13E+04	-.14E+04	.49E+02
				-.18E-02	.19E-02	-.60E-03	-.87E-03	.28E-02	.66E-02	.29E-02	.14E-02	-.48E-02	.77E-02
106	.17E+01	.17E+01	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.22E+02	.30E+02	.30E+02	-.13E+04	-.13E+04	-.14E+04	.43E+02
				-.94E-04	-.11E-04	-.60E-03	-.35E-02	.47E-02	.47E-02	.22E-02	.17E-02	-.46E-02	.67E-02
107	.12E+01	.12E+01	.19E+01	-.14E+04	-.14E+04	-.13E+04	-.41E+02	.22E+02	.20E+02	-.13E+04	-.13E+04	-.14E+04	.84E+02
				-.31E-02	-.27E-02	.62E-02	-.65E-02	.35E-02	.31E-02	.66E-02	.38E-03	-.66E-02	.13E-01
108	.17E+01	.11E+01	.16E+01	-.13E+04	-.13E+04	-.13E+04	-.34E+02	.35E+02	.45E+02	-.13E+04	-.13E+04	-.14E+04	.68E+02
				-.22E-02	-.17E-04	.16E-02	-.53E-02	.57E-02	.72E-02	.42E-02	.17E-02	-.65E-02	.11E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 13 MATERIAL = 1

I	J	K	U	V	W	H
1	1	7	.4941E-02	.1085E-09	-.3282E-02	-.1759E+00
3	1	7	.3332E-02	.1165E-09	-.2137E-02	-.1971E+00
3	3	7	.4643E-02	.3501E-02	-.4023E-02	-.2057E+00
1	3	7	.4778E-02	.7092E-02	-.6011E-02	-.2229E+00
1	1	9	.4334E-02	.7652E-10	-.2150E-02	-.1804E+00
3	1	9	.2785E-02	.6423E-10	-.1840E-02	-.2040E+00
3	3	9	.4186E-02	.4056E-02	-.2570E-02	-.2097E+00
1	3	9	.4218E-02	.7193E-02	-.3478E-02	-.2199E+00
2	1	7	.3744E-02	-.1294E-09	-.2696E-02	
3	2	7	.3968E-02	.1872E-02	-.2821E-02	
2	3	7	.5097E-02	.5258E-02	-.5286E-02	
1	2	7	.4794E-02	.4156E-02	-.4573E-02	
1	1	8	.4943E-02	-.1247E-09	-.2538E-02	
3	1	8	.3151E-02	-.1804E-09	-.2163E-02	
3	3	8	.4433E-02	.3870E-02	-.3410E-02	
1	3	8	.4542E-02	.7320E-02	-.4639E-02	
2	1	9	.3281E-02	-.9711E-10	-.2088E-02	
3	2	9	.3408E-02	.1525E-02	-.2868E-02	
2	3	9	.4423E-02	.5755E-02	-.2968E-02	
1	2	9	.4026E-02	.4089E-02	-.2088E-02	

STRESSES FOR BRICKH ELEMENT NO. 13 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
109	.21E+01	0.	.19E+01	-.14E+04	-.98E+03	-.11E+04	-.98E+02	.39E+01	.68E+02	-.97E+03	-.11E+04	-.14E+04	.22E+03
				-.21E-01	.11E-01	.41E-02	-.92E-02	.61E-03	.94E-02	.11E-01	.49E-02	-.23E-01	.34E-01
110	.23E+01	0.	.19E+01	-.13E+04	-.12E+04	-.13E+04	.94E+01	-.12E+01	.42E+02	-.12E+04	-.12E+04	-.13E+04	.43E+02
				-.26E-03	.86E-03	-.73E-03	.13E-02	-.19E-03	.66E-02	.29E-02	.03E-03	-.39E-02	.68E-02
111	.19E+01	.65E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.62E+02	.23E+02	.28E+02	-.12E+04	-.13E+04	-.14E+04	.72E+02
				-.27E-02	.69E-03	.27E-02	-.98E-02	.37E-02	.44E-02	.42E-02	.36E-02	-.71E-02	.11E-01
112	.19E+01	.33E+00	.19E+01	-.14E+04	-.13E+04	-.13E+04	.24E+02	-.49E+00	.18E+02	-.13E+04	-.14E+04	-.15E+04	.99E+02
				-.16E-02	-.79E-02	.64E-02	.38E-02	-.71E-04	.26E-02	.66E-02	-.13E-02	-.84E-02	.15E-01
113	.21E+01	0.	.24E+01	-.14E+04	-.13E+04	-.12E+04	-.53E+02	-.84E-01	-.13E+02	-.13E+04	-.12E+04	-.14E+04	.20E+03
				-.17E-01	.13E-01	.84E-03	-.84E-02	-.13E-04	-.20E-02	.14E-01	.09E-03	-.18E-01	.31E-01
114	.23E+01	0.	.24E+01	-.13E+04	-.13E+04	-.13E+04	.57E+01	.77E+00	-.20E+01	-.13E+04	-.13E+04	-.13E+04	.43E+02
				-.45E-02	.21E-02	.21E-02	.91E-03	.12E-03	-.32E-03	.22E-02	.21E-02	-.45E-02	.67E-02
115	.18E+01	.61E+00	.24E+01	-.14E+04	-.13E+04	-.13E+04	-.96E+02	-.99E+01	-.20E+01	-.13E+04	-.13E+04	-.14E+04	.89E+02
				-.21E-02	-.75E-03	.43E-02	-.89E-02	-.92E-03	-.42E-03	.44E-02	.38E-02	-.59E-02	.10E-01
116	.15E+01	.33E+00	.24E+01	-.14E+04	-.15E+04	-.13E+04	.41E+02	.89E+01	-.19E+01	-.13E+04	-.14E+04	-.15E+04	.97E+02
				-.25E-02	-.94E-02	.46E-02	.64E-02	.14E-02	-.31E-03	.46E-02	-.12E-02	-.11E-01	.19E-01
117	.29E+01	.35E+00	.22E+01	-.13E+04	-.13E+04	-.12E+04	-.74E+02	.54E+01	.11E+02	-.12E+04	-.12E+04	-.14E+04	.75E+02
				-.26E-02	-.94E-03	.33E-02	-.12E-01	.85E-03	.17E-02	.42E-02	.33E-02	-.77E-02	.12E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 14 MATERIAL = 1

I	J	K	U	V	W	H
1	3	7	.4776E-02	.7092E-02	-.6011E-02	-.2225E+00
3	3	7	.4643E-02	.3901E-02	-.4023E-02	-.2097E+00
3	5	7	.5638E-02	.5638E-02	-.5313E-02	-.2127E+00
1	5	7	.8346E-02	.8346E-02	-.7815E-02	-.2188E+00
1	3	9	.4218E-02	.7193E-02	-.3470E-02	-.2199E+00
3	3	9	.4106E-02	.4056E-02	-.2570E-02	-.2097E+00
3	5	9	.5927E-02	.5927E-02	-.3410E-02	-.2142E+00
1	5	9	.7681E-02	.7681E-02	-.4820E-02	-.2201E+00
2	3	7	.5097E-02	.5258E-02	-.5286E-02	
3	4	7	.5425E-02	.5011E-02	-.5095E-02	
2	5	7	.7231E-02	.7231E-02	-.6865E-02	
1	4	7	.6247E-02	.9260E-02	-.7336E-02	
1	3	8	.4542E-02	.7320E-02	-.4639E-02	
3	3	8	.4433E-02	.3877E-02	-.3410E-02	
3	5	8	.5805E-02	.5805E-02	-.4447E-02	
1	5	8	.8009E-02	.8009E-02	-.6114E-02	
2	3	9	.4423E-02	.5755E-02	-.2960E-02	
3	4	9	.5184E-02	.5577E-02	-.3170E-02	
2	5	9	.7039E-02	.7039E-02	-.3840E-02	
1	4	9	.5652E-02	.8710E-02	-.4350E-02	

STRESSES FOR BRICKH ELEMENT NO. 14 MATERIAL = 1

POINT	X	Y	Z	SIGMAX / EPSX	SIGMAY / EPSY	SIGMAZ / EPSZ	TAUXY / GAMMAXY	TAUYZ / GAMMAYZ	TAUZX / GAMMAZX	SIGMA1 / EPS1	SIGMA2 / EPS2	SIGMA3 / EPS3	TAUMAX / GAMMAMAX
117	.15E+01	.33E+00	.19E+01	-.15E+04	-.14E+04	-.13E+04	.27E+02	-.64E+01	.21E+02	-.13E+04	-.14E+04	-.15E+04	.92E+02
				-.48E-02	-.24E-02	.64E-02	.43E-02	-.10E-02	.33E-02	.66E-02	-.12E-02	-.63E-02	.13E-01
119	.19E+01	.65E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.45E+02	.23E+02	.28E+02	-.13E+04	-.13E+04	-.14E+04	.67E+02
				-.33E-02	-.20E-02	.27E-02	-.71E-02	.37E-02	.44E-02	.35E-02	.97E-03	-.71E-02	.11E-01
120	.12E+01	.12E+01	.19E+01	-.14E+04	-.14E+04	-.13E+04	-.46E+02	.20E+02	.18E+02	-.13E+04	-.13E+04	-.14E+04	.70E+02
				-.35E-02	-.30E-02	.46E-02	-.73E-02	.32E-02	.29E-02	.50E-02	.37E-03	-.73E-02	.12E-01
121	.67E+00	.67E+00	.19E+01	-.15E+04	-.14E+04	-.13E+04	.21E+02	-.38E+01	.61E+00	-.13E+04	-.14E+04	-.15E+04	.92E+02
				-.53E-02	-.46E-02	.78E-02	.33E-02	-.60E-03	.96E-04	.78E-02	-.33E-02	-.67E-02	.14E-01
122	.15E+01	.33E+00	.24E+01	-.14E+04	-.14E+04	-.13E+04	.33E+02	.33E+01	.22E+01	-.13E+04	-.14E+04	-.15E+04	.72E+02
				-.45E-02	-.38E-02	.46E-02	.52E-02	.51E-03	.34E-03	.46E-02	-.16E-02	-.68E-02	.11E-01
123	.18E+01	.61E+00	.24E+01	-.14E+04	-.14E+04	-.13E+04	-.39E+02	-.77E+01	-.13E+01	-.13E+04	-.13E+04	-.14E+04	.67E+02
				-.27E-02	-.32E-02	.43E-02	-.62E-02	-.12E-02	-.21E-03	.44E-02	.12E-03	-.61E-02	.10E-01
124	.11E+01	.11E+01	.24E+01	-.14E+04	-.14E+04	-.13E+04	-.29E+02	-.70E+01	-.61E+01	-.13E+04	-.14E+04	-.14E+04	.71E+02
				-.39E-02	-.34E-02	.52E-02	-.45E-02	-.11E-02	-.97E-03	.53E-02	-.13E-02	-.68E-02	.11E-01
125	.67E+00	.67E+00	.24E+01	-.14E+04	-.14E+04	-.13E+04	.26E+02	.42E+01	.11E+02	-.13E+04	-.14E+04	-.15E+04	.79E+02
				-.45E-02	-.40E-02	.60E-02	.41E-02	.67E-03	.17E-02	.61E-02	-.23E-02	-.63E-02	.12E-01
126	.12E+01	.59E+00	.22E+01	-.14E+04	-.14E+04	-.13E+04	-.18E+02	.16E+01	.54E+01	-.13E+04	-.14E+04	-.14E+04	.71E+02
				-.24E-02	-.36E-02	.65E-02	-.29E-02	.25E-03	.85E-03	.65E-02	-.15E-02	-.46E-02	.11E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 15 MATERIAL = 1

I	J	K	U	V	W	H
3	1	7	.3332E-02	.1165E-09	-.2157E-02	-.1971E+00
5	1	7	.3089E-02	-.1244E-12	-.1158E-02	-.1914E+00
5	3	7	.3624E-02	.1830E-02	-.1171E-02	-.2078E+00
3	3	7	.4843E-02	.3901E-02	-.4823E-02	-.2897E+00
3	1	9	.2705E-02	.6423E-10	-.1840E-02	-.2040E+00
5	1	9	.2446E-02	-.1283E-12	-.1530E-02	-.2099E+00
5	3	9	.3148E-02	.1654E-02	-.1530E-02	-.2147E+00
3	3	9	.4108E-02	.4098E-02	-.2970E-02	-.2897E+00
4	1	7	.3262E-02	-.1205E-09	-.1653E-02	
5	2	7	.3248E-02	.8496E-03	-.1162E-02	
4	3	7	.3997E-02	.2193E-02	-.2588E-02	
3	2	7	.3968E-02	.1072E-02	-.2821E-02	
3	1	8	.3151E-02	-.1804E-09	-.2163E-02	
5	1	8	.2947E-02	.6324E-12	-.1343E-02	
5	3	8	.3529E-02	.1805E-02	-.1351E-02	
3	3	8	.4433E-02	.3870E-02	-.3410E-02	
4	1	9	.2533E-02	-.7888E-10	-.1680E-02	
5	2	9	.2661E-02	.7509E-03	-.1530E-02	
4	3	9	.3446E-02	.2297E-02	-.1990E-02	
3	2	9	.3408E-02	.1529E-02	-.2080E-02	

STRESSES FOR BRICKH ELEMENT NO. 15 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSx	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
127	.23E+01	0.	.19E+01	-.12E+04	-.12E+04	-.13E+04	.84E+01	-.13E+01	.41E+02	-.12E+04	-.12E+04	-.13E+04	.43E+02
				-.25E-03	.66E-03	-.73E-03	.13E-02	-.20E-03	.65E-02	.29E-02	.03E-03	-.38E-02	.67E-02
128	.24E+01	0.	.19E+01	-.12E+04	-.12E+04	-.12E+04	.64E+00	.64E-01	.42E+02	-.12E+04	-.12E+04	-.13E+04	.45E+02
				-.30E-02	.16E-02	-.79E-03	.10E-03	.10E-04	.66E-02	.16E-02	.16E-02	-.54E-02	.70E-02
129	.23E+01	.94E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.49E+01	.18E+02	.42E+02	-.13E+04	-.13E+04	-.14E+04	.49E+02
				-.18E-02	.19E-02	-.77E-03	-.77E-03	.28E-02	.67E-02	.29E-02	.13E-02	-.49E-02	.78E-02
130	.19E+01	.89E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.84E+02	.23E+02	.28E+02	-.13E+04	-.13E+04	-.14E+04	.72E+02
				-.27E-02	.18E-03	.27E-02	-.10E-01	.37E-02	.44E-02	.48E-02	.35E-02	-.74E-02	.11E-01
131	.23E+01	0.	.24E+01	-.13E+04	-.13E+04	-.13E+04	.71E+01	.77E+00	-.20E+01	-.13E+04	-.13E+04	-.13E+04	.32E+02
				-.28E-02	.21E-02	.21E-02	.11E-02	.12E-03	-.32E-03	.22E-02	.21E-02	-.29E-02	.51E-02
132	.24E+01	0.	.24E+01	-.13E+04	-.13E+04	-.13E+04	.11E+01	.23E-01	-.64E+01	-.13E+04	-.13E+04	-.13E+04	.17E+02
				-.59E-03	.14E-02	-.81E-03	.17E-03	.36E-05	-.18E-02	.14E-02	-.19E-03	-.12E-02	.26E-02
133	.23E+01	.94E+00	.24E+01	-.14E+04	-.13E+04	-.14E+04	-.88E+01	-.18E+01	-.42E+01	-.13E+04	-.14E+04	-.14E+04	.20E+02
				-.14E-02	.14E-02	-.77E-03	-.10E-02	-.25E-03	-.67E-03	.15E-02	-.64E-03	-.17E-02	.32E-02
134	.18E+01	.61E+00	.24E+01	-.14E+04	-.13E+04	-.13E+04	-.64E+02	.11E-01	-.18E+01	-.13E+04	-.13E+04	-.14E+04	.74E+02
				-.24E-02	-.18E-02	.45E-02	-.10E-01	.17E-05	-.16E-03	.45E-02	.29E-02	-.71E-02	.12E-01
135	.23E+01	.43E+00	.22E+01	-.13E+04	-.13E+04	-.13E+04	-.19E+02	.88E+01	.22E+02	-.13E+04	-.13E+04	-.13E+04	.40E+02
				-.28E-02	.19E-02	.57E-03	-.29E-02	.13E-02	.34E-02	.23E-02	.13E-02	-.40E-02	.63E-02

DISPLACEMENTS FOR BRICKH ELEMENT NO. 16 MATERIAL = 1

I	J	K	U	V	W	H
3	3	7	.4643E-02	.3501E-02	-.4023E-02	-.2057E+00
5	3	7	.3624E-02	.1830E-02	-.1171E-02	-.2078E+00
5	5	7	.3521E-02	.3521E-02	-.1184E-02	-.2068E+00
3	5	7	.5638E-02	.5638E-02	-.5313E-02	-.2127E+00
3	3	9	.4106E-02	.4056E-02	-.2570E-02	-.2097E+00
5	3	9	.3140E-02	.1654E-02	-.1538E-02	-.2147E+00
5	5	9	.3241E-02	.3241E-02	-.1530E-02	-.2101E+00
3	5	9	.5927E-02	.5927E-02	-.3410E-02	-.2142E+00
4	3	7	.3997E-02	.2193E-02	-.2588E-02	
5	4	7	.3825E-02	.2792E-02	-.1181E-02	
4	5	7	.4290E-02	.4290E-02	-.3401E-02	
3	4	7	.5425E-02	.5016E-02	-.5035E-02	
3	3	8	.4433E-02	.3870E-02	-.3410E-02	
5	3	8	.3529E-02	.1805E-02	-.1351E-02	
5	5	8	.3480E-02	.3480E-02	-.1358E-02	
3	5	8	.5805E-02	.5805E-02	-.4447E-02	
4	3	9	.3446E-02	.2297E-02	-.1930E-02	
5	4	9	.3455E-02	.2566E-02	-.1530E-02	
4	5	9	.4289E-02	.4289E-02	-.2300E-02	
3	4	9	.5154E-02	.5577E-02	-.3170E-02	

STRESSES FOR BRICKH ELEMENT NO. 16 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
136	.19E+01	.65E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.47E+02	.23E+02	.20E+02	-.13E+04	-.13E+04	-.14E+04	.70E+02
				-.33E-02	-.26E-02	.27E-02	-.74E-02	.37E-02	.44E-02	.35E-02	.75E-03	-.75E-02	.11E-01
137	.23E+01	.94E+00	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.55E+01	.18E+02	.42E+02	-.13E+04	-.13E+04	-.14E+04	.49E+02
				-.18E-02	.19E-02	-.77E-03	-.87E-03	.28E-02	.66E-02	.29E-02	.14E-02	-.49E-02	.78E-02
138	.17E+01	.17E+01	.19E+01	-.13E+04	-.13E+04	-.13E+04	-.22E+02	.30E+02	.30E+02	-.13E+04	-.13E+04	-.14E+04	.43E+02
				-.94E-04	-.11E-04	-.76E-03	-.35E-02	.47E-02	.47E-02	.21E-02	.17E-02	-.46E-02	.67E-02
139	.12E+01	.12E+01	.19E+01	-.14E+04	-.14E+04	-.13E+04	-.41E+02	.20E+02	.18E+02	-.13E+04	-.13E+04	-.14E+04	.73E+02
				-.31E-02	-.27E-02	.46E-02	-.65E-02	.32E-02	.29E-02	.50E-02	.37E-03	-.66E-02	.12E-01
140	.18E+01	.61E+00	.24E+01	-.14E+04	-.14E+04	-.13E+04	-.47E+02	-.15E+01	.46E-01	-.13E+04	-.13E+04	-.14E+04	.76E+02
				-.30E-02	-.45E-02	.45E-02	-.74E-02	-.26E-03	.73E-05	.45E-02	.51E-04	-.75E-02	.12E-01
141	.23E+01	.94E+00	.24E+01	-.14E+04	-.13E+04	-.14E+04	-.74E+01	-.16E+01	-.43E+01	-.13E+04	-.14E+04	-.14E+04	.21E+02
				-.14E-02	.15E-02	-.77E-03	-.12E-02	-.25E-03	-.67E-03	.16E-02	-.63E-03	-.16E-02	.33E-02
142	.17E+01	.17E+01	.24E+01	-.13E+04	-.13E+04	-.13E+04	-.23E+02	-.46E+01	-.40E+01	-.13E+04	-.13E+04	-.14E+04	.24E+02
				-.34E-03	-.23E-03	-.74E-03	-.36E-02	-.64E-03	-.63E-03	.15E-02	-.68E-03	-.22E-02	.37E-02
143	.11E+01	.11E+01	.24E+01	-.14E+04	-.14E+04	-.13E+04	-.34E+02	.21E+01	.24E+01	-.13E+04	-.14E+04	-.14E+04	.93E+02
				-.42E-02	-.37E-02	.64E-02	-.53E-02	.33E-03	.37E-03	.64E-02	-.13E-02	-.67E-02	.13E-01
144	.18E+01	.11E+01	.22E+01	-.14E+04	-.13E+04	-.13E+04	-.32E+02	.13E+02	.13E+02	-.13E+04	-.13E+04	-.14E+04	.46E+02
				-.19E-02	-.89E-03	.27E-02	-.51E-02	.21E-02	.20E-02	.30E-02	.12E-02	-.42E-02	.73E-02

DISPLACEMENTS FOR BRICK ELEMENT NO. 17 MATERIAL = 2

I	J	K	U	V	W	
5	1	1	.3687E-02	-.1161E-12	.1436E-21	0.
7	1	1	.3654E-02	-.1761E-12	.4543E-13	0.
7	3	1	.3857E-02	.1721E-02	.5275E-13	0.
5	3	1	.3860E-02	.1801E-02	.3344E-21	0.
5	1	3	.3429E-02	-.1099E-12	-.3207E-03	0.
7	1	3	.3398E-02	-.1703E-12	-.2961E-03	0.
7	3	3	.3663E-02	.1648E-02	-.2729E-03	0.
5	3	3	.3681E-02	.1733E-02	-.3231E-03	0.
6	1	1	.3671E-02	.2151E-12	-.3873E-13	
7	2	1	.3719E-02	.8257E-03	-.4284E-13	
6	3	1	.3859E-02	.1761E-02	-.4474E-13	
5	2	1	.3749E-02	.8701E-03	-.8819E-21	
5	1	2	.3613E-02	.5069E-12	-.1646E-03	
7	1	2	.3581E-02	.6523E-12	-.1244E-03	
7	3	2	.3798E-02	.1699E-02	-.1332E-03	
5	3	2	.3799E-02	.1780E-02	-.1662E-03	
6	1	3	.3413E-02	.2035E-12	-.2883E-03	
7	2	3	.3478E-02	.7826E-03	-.2681E-03	
6	3	3	.3661E-02	.1690E-02	-.2979E-03	
5	2	3	.3501E-02	.8296E-03	-.3207E-03	

STRESSES FOR BRICK ELEMENT NO. 17 MATERIAL = 2

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
145	.24E+01	0.	0.	-.19E+04	.49E+05	-.78E+04	.68E+03	.62E-04	-.94E+03	.49E+05	-.18E+04	-.80E+04	.28E+05
				-.47E-03	.17E-02	-.73E-03	.59E-04	.54E-11	-.81E-04	.17E-02	-.47E-03	-.74E-03	.25E-02
146	.25E+01	0.	0.	-.83E+03	.47E+05	-.19E+04	.62E+03	.78E-04	-.87E+03	.47E+05	-.36E+03	-.24E+04	.24E+05
				-.47E-03	.16E-02	-.52E-03	.54E-04	.68E-11	-.75E-04	.16E-02	-.45E-03	-.54E-03	.21E-02
147	.23E+01	.98E+00	0.	.49E+04	.39E+05	-.37E+04	-.17E+05	-.37E+03	-.11E+04	.46E+05	-.16E+04	-.43E+04	.29E+05
				-.19E-03	.13E-02	-.56E-03	-.15E-02	-.32E-04	-.92E-04	.16E-02	-.47E-03	-.59E-03	.22E-02
148	.23E+01	.94E+00	0.	.96E+04	.41E+05	-.82E+04	-.18E+05	-.38E+03	-.11E+04	.48E+05	-.18E+04	-.84E+04	.28E+05
				-.14E-03	.14E-02	-.74E-03	-.15E-02	-.33E-04	-.97E-04	.17E-02	-.46E-03	-.75E-03	.25E-02
149	.24E+01	0.	.46E+00	-.30E+04	.46E+05	-.68E+04	.67E+03	.50E+02	-.13E+04	.46E+05	-.27E+04	-.72E+04	.27E+05
				-.49E-03	.16E-02	-.66E-03	.58E-04	.43E-05	-.11E-03	.16E-02	-.40E-03	-.67E-03	.23E-02
150	.25E+01	0.	.46E+00	.43E+03	.43E+05	-.44E+04	.60E+03	.29E+02	-.13E+04	.43E+05	.73E+03	-.48E+04	.24E+05
				-.37E-03	.15E-02	-.58E-03	.52E-04	.25E-05	-.11E-03	.15E-02	-.36E-03	-.60E-03	.21E-02
151	.23E+01	.96E+00	.46E+00	.93E+04	.38E+05	-.61E+04	-.15E+05	-.52E+03	-.87E+03	.43E+05	-.94E+03	-.63E+04	.24E+05
				-.13E-03	.12E-02	-.62E-03	-.13E-02	-.45E-04	-.75E-04	.15E-02	-.40E-03	-.63E-03	.21E-02
152	.23E+01	.94E+00	.46E+00	.44E+04	.39E+05	-.68E+04	-.17E+05	.38E+02	-.11E+04	.46E+05	-.25E+04	-.78E+04	.26E+05
				-.17E-03	.13E-02	-.66E-03	-.15E-02	.33E-05	-.94E-04	.15E-02	-.47E-03	-.67E-03	.23E-02
153	.24E+01	.48E+00	.23E+00	.15E+04	.48E+05	-.38E+04	-.98E+04	.12E+03	.13E+03	.50E+05	-.44E+03	-.38E+04	.27E+05
				-.39E-03	.16E-02	-.63E-03	-.85E-03	.11E-04	.11E-04	.17E-02	-.48E-03	-.63E-03	.23E-02

DISPLACEMENTS FOR BRICK ELEMENT NO. 18 MATERIAL = 2

I	J	K	U	V	W	
5	3	1	.3866E-02	.1901E-02	.3344E-21	0.
7	3	1	.3857E-02	.1721E-02	.5279E-13	0.
7	5	1	.3398E-02	.3398E-02	.6112E-13	0.
5	5	1	.3422E-02	.3422E-02	.1568E-21	0.
5	3	3	.3661E-02	.1733E-02	-.3231E-03	0.
7	3	3	.3663E-02	.1648E-02	-.2729E-03	0.
7	5	3	.3282E-02	.3282E-02	-.2873E-03	0.
5	5	3	.3304E-02	.3304E-02	-.3249E-03	0.
6	3	1	.3859E-02	.1761E-02	-.4474E-13	
7	4	1	.3816E-02	.2651E-02	-.9582E-13	
6	5	1	.3411E-02	.3411E-02	-.5036E-13	
5	4	1	.3821E-02	.2702E-02	-.8996E-21	
5	3	2	.3799E-02	.1786E-02	-.1652E-03	
7	3	2	.3790E-02	.1699E-02	-.1332E-03	
7	5	2	.3359E-02	.3359E-02	-.1406E-03	
5	5	2	.3383E-02	.3383E-02	-.1669E-03	
6	3	3	.3661E-02	.1691E-02	-.2979E-03	
7	4	3	.3667E-02	.2557E-02	-.2850E-03	
6	5	3	.3293E-02	.3293E-02	-.3061E-03	
5	4	3	.3668E-02	.2609E-02	-.3294E-03	

STRESSES FOR BRICK ELEMENT NO. 18 MATERIAL = 2

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
154	.23E+01	.94E+00	0.	.66E+04	.43E+05	-.72E+04	-.10E+05	-.30E+03	-.11E+04	.51E+05	-.69E+03	-.74E+04	.29E+05
				-.14E-03	.14E-02	-.74E-03	-.16E-02	-.33E-04	-.97E-04	.18E-02	-.46E-03	-.75E-03	.25E-02
155	.23E+01	.96E+00	0.	.86E+04	.46E+05	-.54E+03	-.18E+05	-.37E+03	-.11E+04	.53E+05	.16E+04	-.11E+04	.27E+05
				-.16E-03	.14E-02	-.56E-03	-.16E-02	-.32E-04	-.92E-04	.18E-02	-.47E-03	-.59E-03	.24E-02
156	.18E+01	.18E+01	0.	.25E+05	.27E+05	-.20E+04	-.26E+05	-.97E+03	-.97E+03	.53E+05	.54E+03	-.28E+04	.28E+05
				.60E-03	.67E-03	-.59E-03	-.23E-02	-.84E-04	-.84E-04	.18E-02	-.48E-03	-.63E-03	.24E-02
157	.17E+01	.17E+01	0.	.24E+05	.26E+05	-.73E+04	-.25E+05	-.10E+04	-.10E+04	.58E+05	-.43E+03	-.78E+04	.29E+05
				.61E-03	.69E-03	-.74E-03	-.22E-02	-.86E-04	-.86E-04	.18E-02	-.44E-03	-.75E-03	.25E-02
158	.23E+01	.94E+00	.46E+00	.56E+04	.41E+05	-.58E+04	-.18E+05	.68E+02	-.11E+04	.49E+05	-.15E+04	-.60E+04	.27E+05
				-.17E-03	.14E-02	-.66E-03	-.15E-02	.59E-05	-.95E-04	.17E-02	-.47E-03	-.67E-03	.24E-02
159	.23E+01	.96E+00	.46E+00	.94E+04	.44E+05	-.26E+04	-.17E+05	-.49E+03	-.88E+03	.51E+05	.25E+04	-.28E+04	.27E+05
				-.97E-04	.14E-02	-.62E-03	-.15E-02	-.43E-04	-.76E-04	.17E-02	-.40E-03	-.63E-03	.23E-02
160	.18E+01	.18E+01	.46E+00	.85E+05	.27E+05	-.40E+04	-.25E+05	-.43E+03	-.50E+03	.58E+05	.10E+04	-.41E+04	.27E+05
				.60E-03	.68E-03	-.65E-03	-.21E-02	-.38E-04	-.44E-04	.17E-02	-.43E-03	-.65E-03	.24E-02
161	.17E+01	.17E+01	.46E+00	.22E+05	.24E+05	-.59E+04	-.25E+05	-.45E+03	-.49E+03	.48E+05	-.13E+04	-.60E+04	.27E+05
				.56E-03	.65E-03	-.66E-03	-.21E-02	-.39E-04	-.43E-04	.17E-02	-.46E-03	-.67E-03	.23E-02
162	.21E+01	.14E+01	.23E+00	.14E+05	.32E+05	-.58E+04	-.22E+05	.18E+03	.76E+02	.47E+05	-.80E+03	-.58E+04	.27E+05
				.21E-03	.10E-02	-.66E-03	-.19E-02	.15E-04	.66E-05	.16E-02	-.44E-03	-.66E-03	.23E-02

DISPLACEMENTS FOR BRICK ELEMENT NO. 19 MATERIAL = 2

I	J	K	U	V	W	
5	1	3	.3429E-02	-.1099E-12	-.3207E-03	0.
7	1	3	.3398E-02	-.1703E-12	-.2561E-03	0.
7	3	3	.3663E-02	.1648E-02	-.2729E-03	0.
5	3	3	.3661E-02	.1733E-02	-.3231E-03	0.
5	1	5	.3076E-02	-.1167E-12	-.7247E-03	0.
7	1	5	.3047E-02	-.1888E-12	-.7218E-03	0.
7	3	5	.3498E-02	.1613E-02	-.7510E-03	0.
5	3	5	.3487E-02	.1717E-02	-.7340E-03	0.
6	1	3	.3413E-02	.2035E-12	-.2883E-03	
7	2	3	.3478E-02	.7826E-03	-.2601E-03	
6	3	3	.3661E-02	.1690E-02	-.2979E-03	
5	2	3	.3501E-02	.8296E-03	-.3207E-03	
5	1	4	.3169E-02	.5361E-12	-.5255E-03	
7	1	4	.3141E-02	.8057E-12	-.4917E-03	
7	3	4	.3498E-02	.1594E-02	-.5165E-03	
5	3	4	.3491E-02	.1688E-02	-.5324E-03	
6	1	5	.3068E-02	.1964E-12	-.7231E-03	
7	2	5	.3188E-02	.7447E-03	-.7293E-03	
6	3	5	.3492E-02	.1665E-02	-.7424E-03	
5	2	5	.3288E-02	.8047E-03	-.7281E-03	

STRESSES FOR BRICK ELEMENT NO. 19 MATERIAL = 2

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
163	.24E+01	0.	.46E+00	-.14E+04	.48E+03	-.30E+04	.67E+03	.50E+02	.71E+01	.48E+03	-.14E+04	-.30E+04	.25E+05
				-.49E-03	.16E-02	-.56E-03	.58E-04	.43E-05	.61E-06	.16E-02	-.49E-03	-.56E-03	.22E-02
164	.25E+01	0.	.46E+00	-.61E+03	.42E+05	-.69E+04	.60E+03	.29E+02	.28E+02	.42E+05	-.61E+03	-.69E+04	.25E+05
				-.37E-03	.15E-02	-.64E-03	.52E-04	.25E-05	.24E-05	.15E-02	-.37E-03	-.64E-03	.21E-02
165	.23E+01	.96E+00	.46E+00	.43E+04	.35E+05	-.82E+04	-.15E+05	-.52E+01	.74E+02	.42E+05	-.21E+04	-.82E+04	.29E+05
				-.13E-03	.12E-02	-.67E-03	-.13E-02	-.45E-06	.64E-05	.15E-02	-.48E-03	-.67E-03	.22E-02
166	.23E+01	.94E+00	.46E+00	.98E+04	.40E+05	-.39E+04	-.17E+05	.98E+03	-.14E+03	.47E+05	-.13E+04	-.39E+04	.29E+05
				-.17E-03	.13E-02	-.58E-03	-.15E-02	.48E-04	-.13E-04	.16E-02	-.48E-03	-.58E-03	.22E-02
167	.24E+01	0.	.12E+01	-.24E+04	.45E+05	-.33E+04	.10E+04	.47E+02	.22E+03	.45E+05	-.24E+04	-.33E+04	.24E+05
				-.49E-03	.15E-02	-.53E-03	.86E-04	.41E-05	.19E-04	.15E-02	-.49E-03	-.53E-03	.21E-02
168	.25E+01	0.	.12E+01	-.60E+02	.39E+05	-.68E+04	.92E+03	-.76E+01	.37E+02	.39E+05	-.82E+02	-.68E+04	.23E+05
				-.32E-03	.14E-02	-.61E-03	.80E-04	-.66E-06	.32E-05	.14E-02	-.32E-03	-.61E-03	.20E-02
169	.23E+01	.96E+00	.12E+01	.38E+04	.34E+05	-.75E+04	-.14E+05	-.27E+02	.15E+03	.39E+05	-.28E+04	-.79E+04	.23E+05
				-.13E-03	.12E-02	-.62E-03	-.12E-02	-.23E-05	.13E-04	.14E-02	-.38E-03	-.62E-03	.20E-02
170	.23E+01	.94E+00	.12E+01	.48E+04	.38E+05	-.31E+04	-.16E+05	.77E+03	.22E+02	.45E+05	-.18E+04	-.32E+04	.24E+05
				-.19E-03	.13E-02	-.53E-03	-.14E-02	.67E-04	.19E-05	.15E-02	-.48E-03	-.54E-03	.21E-02
171	.24E+01	.48E+00	.83E+00	.14E+04	.45E+05	-.39E+04	-.91E+04	.24E+03	-.52E+02	.46E+05	-.45E+03	-.39E+04	.25E+05
				-.36E-03	.15E-02	-.59E-03	-.79E-03	.21E-04	-.45E-05	.16E-02	-.44E-03	-.59E-03	.22E-02

DISPLACEMENTS FOR BRICK ELEMENT NO. 20 MATERIAL = 2

I	J	K	U	V	W	
5	3	3	.3661E-02	.1733E-02	-.3231E-03	0.
7	3	3	.3662E-02	.1648E-02	-.2729E-03	0.
7	5	3	.3282E-02	.3282E-02	-.2873E-03	0.
5	5	3	.3384E-02	.3304E-02	-.3249E-03	0.
5	3	5	.3487E-02	.1717E-02	-.7340E-03	0.
7	3	5	.3498E-02	.1613E-02	-.7510E-03	0.
7	5	5	.3279E-02	.3279E-02	-.7770E-03	0.
5	5	5	.3302E-02	.3302E-02	-.7423E-03	0.
6	3	3	.3661E-02	.1690E-02	-.2979E-03	
7	4	3	.3667E-02	.2557E-02	-.2858E-03	
6	5	3	.3293E-02	.3293E-02	-.3061E-03	
5	4	3	.3668E-02	.2609E-02	-.3254E-03	
5	3	4	.3491E-02	.1688E-02	-.5324E-03	
7	3	4	.3498E-02	.1594E-02	-.5155E-03	
7	5	4	.3212E-02	.3212E-02	-.5384E-03	
5	5	4	.3234E-02	.3234E-02	-.5388E-03	
6	3	5	.3492E-02	.1665E-02	-.7424E-03	
7	4	5	.3619E-02	.2551E-02	-.7789E-03	
6	5	5	.3290E-02	.3290E-02	-.7596E-03	
5	4	5	.3613E-02	.2612E-02	-.7414E-03	

STRESSES FOR BRICK ELEMENT NO. 20 MATERIAL = 2

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
171	.23E+01	.94E+00	.46E+00	.79E+04	.42E+05	-.25E+04	-.18E+05	.59E+03	-.16E+03	.50E+05	-.31E+03	-.25E+04	.26E+05
				-.17E-03	.14E-02	-.58E-03	-.15E-02	.51E-04	-.14E-04	.17E-02	-.48E-03	-.58E-03	.23E-02
173	.23E+01	.96E+00	.46E+00	.85E+04	.43E+05	-.48E+04	-.17E+05	.27E+02	.61E+02	.50E+05	.14E+04	-.48E+04	.27E+05
				-.97E-04	.14E-02	-.67E-03	-.15E-02	.23E-05	.53E-05	.17E-02	-.48E-03	-.67E-03	.24E-02
174	.18E+01	.18E+01	.46E+00	.24E+05	.26E+05	-.68E+04	-.25E+05	.70E+02	.12E+01	.50E+05	.42E+02	-.60E+04	.28E+05
				.63E-03	.68E-03	-.70E-03	-.21E-02	.61E-05	.10E-06	.17E-02	-.43E-03	-.70E-03	.24E-02
175	.17E+01	.17E+01	.46E+00	.24E+05	.25E+05	-.38E+04	-.25E+05	.79E+02	.54E+02	.49E+05	-.12E+03	-.38E+04	.28E+05
				.56E-03	.65E-03	-.59E-03	-.21E-02	.68E-05	.30E-05	.17E-02	-.47E-03	-.59E-03	.23E-02
176	.23E+01	.94E+00	.12E+01	.65E+04	.41E+05	-.19E+04	-.17E+05	.77E+03	.21E+02	.48E+05	-.55E+03	-.20E+04	.25E+05
				-.17E-03	.13E-02	-.63E-03	-.15E-02	.67E-04	.18E-05	.16E-02	-.48E-03	-.54E-03	.22E-02
177	.23E+01	.96E+00	.12E+01	.92E+04	.43E+05	-.32E+04	-.17E+05	.82E+01	.14E+03	.49E+05	.23E+04	-.32E+04	.26E+05
				-.88E-04	.14E-02	-.62E-03	-.14E-02	.71E-06	.12E-04	.17E-02	-.38E-03	-.62E-03	.23E-02
178	.18E+01	.18E+01	.12E+01	.24E+05	.26E+05	-.39E+04	-.25E+05	.17E+03	.13E+03	.50E+05	.32E+03	-.39E+04	.27E+05
				.58E-03	.66E-03	-.63E-03	-.21E-02	.15E-04	.12E-04	.17E-02	-.45E-03	-.63E-03	.23E-02
179	.17E+01	.17E+01	.12E+01	.23E+05	.25E+05	-.17E+04	-.24E+05	.33E+03	.24E+03	.48E+05	-.54E+02	-.18E+04	.25E+05
				.54E-03	.62E-03	-.54E-03	-.21E-02	.28E-04	.21E-04	.15E-02	-.47E-03	-.54E-03	.22E-02
180	.21E+01	.19E+01	.83E+00	.13E+05	.30E+05	-.55E+04	-.21E+05	.23E+03	-.18E+03	.43E+05	-.88E+03	-.55E+04	.25E+05
				.19E-03	.92E-03	-.61E-03	-.18E-02	.20E-04	-.89E-05	.15E-02	-.41E-03	-.61E-03	.21E-02

DISPLACEMENTS FOR BRICK ELEMENT NO. 21 MATERIAL = 2

I	J	K	U	V	W	
5	1	5	.3076E-02	-.1167E-12	-.7247E-03	0.
7	1	5	.3047E-02	-.1588E-12	-.7218E-03	0.
7	3	5	.3498E-02	.1613E-02	-.7510E-03	0.
5	3	5	.3487E-02	.1717E-02	-.7348E-03	0.
5	1	7	.3089E-02	-.1244E-12	-.1158E-02	0.
7	1	7	.3059E-02	-.1655E-12	-.1160E-02	0.
7	3	7	.3641E-02	.1787E-02	-.1182E-02	0.
5	3	7	.3624E-02	.1338E-02	-.1171E-02	0.
6	1	5	.3068E-02	.1964E-12	-.7231E-03	
7	2	5	.3188E-02	.7447E-03	-.7293E-03	
6	3	5	.3492E-02	.1665E-02	-.7424E-03	
5	2	5	.3288E-02	.8047E-03	-.7261E-03	
5	1	6	.3074E-02	.6543E-12	-.9382E-03	
7	1	6	.3049E-02	.9943E-12	-.9402E-03	
7	3	6	.3576E-02	.1662E-02	-.9575E-03	
5	3	6	.3562E-02	.1778E-02	-.9589E-03	
6	1	7	.3073E-02	.1999E-12	-.1159E-02	
7	2	7	.3229E-02	.7788E-03	-.1165E-02	
6	3	7	.3633E-02	.1760E-02	-.1177E-02	
5	2	7	.3248E-02	.8499E-03	-.1182E-02	

STRESSES FOR BRICK ELEMENT NO. 21 MATERIAL = 2

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
181	.24E+01	0.	.12E+01	-.31E+04 -.49E-03	.44E+03 .15E-02	-.43E+04 -.57E-03	.18E+04 .86E-04	.47E+02 .41E-05	.26E+03 .23E-04	.44E+03 .15E-02	-.31E+04 -.49E-03	-.48E+04 -.57E-03	.24E+03 .21E-02
182	.25E+01	0.	.12E+01	.39E+03 -.32E-03	.39E+03 .14E-02	-.57E+04 -.59E-03	.92E+03 .88E-04	-.76E+01 -.66E-06	.87E+02 .76E-05	.39E+03 .14E-02	.37E+03 -.32E-03	-.57E+04 -.59E-03	.23E+03 .28E-02
183	.23E+01	.96E+00	.12E+01	.44E+04 -.13E-03	.34E+03 .12E-02	-.61E+04 -.59E-03	-.14E+05 -.12E-02	-.77E+02 -.67E-05	.21E+03 .18E-04	.40E+03 .14E-02	-.14E+04 -.38E-03	-.61E+04 -.59E-03	.23E+03 .28E-02
184	.23E+01	.94E+00	.12E+01	.48E+04 -.19E-03	.37E+03 .13E-02	-.98E+04 -.58E-03	-.18E+05 -.14E-02	.72E+03 .62E-04	.89E+02 .59E-05	.44E+03 .15E-02	-.28E+04 -.48E-03	-.91E+04 -.58E-03	.29E+03 .21E-02
185	.24E+01	0.	.19E+01	-.12E+04 -.46E-03	.47E+03 .16E-02	-.45E+04 -.60E-03	.12E+04 .11E-03	-.23E+02 -.20E-05	.20E+03 .18E-04	.47E+03 .16E-02	-.12E+04 -.46E-03	-.49E+04 -.60E-03	.26E+03 .22E-02
186	.25E+01	0.	.19E+01	-.16E+04 -.39E-03	.40E+03 .14E-02	-.64E+04 -.60E-03	.11E+04 .97E-04	.33E+02 .30E-05	.68E+03 .52E-04	.40E+03 .14E-02	-.15E+04 -.38E-03	-.65E+04 -.60E-03	.23E+03 .28E-02
187	.23E+01	.96E+00	.19E+01	.28E+04 -.19E-03	.34E+03 .12E-02	-.83E+04 -.58E-03	-.19E+05 -.13E-02	.18E+03 .14E-04	.93E+03 .46E-04	.40E+03 .14E-02	-.39E+04 -.46E-03	-.84E+04 -.58E-03	.23E+03 .28E-02
188	.23E+01	.94E+00	.19E+01	.59E+04 -.16E-03	.40E+03 .13E-02	-.42E+04 -.60E-03	-.17E+05 -.14E-02	.47E+03 .41E-04	.36E+02 .32E-05	.47E+03 .16E-02	-.77E+03 -.45E-03	-.43E+04 -.60E-03	.25E+03 .22E-02
189	.24E+01	.48E+00	.16E+01	.15E+04 -.38E-03	.46E+03 .16E-02	-.34E+04 -.59E-03	-.94E+04 -.81E-03	.21E+03 .19E-04	-.83E+02 -.72E-05	.49E+03 .15E-02	-.34E+03 -.46E-03	-.34E+04 -.59E-03	.26E+03 .22E-02

DISPLACEMENTS FOR BRICK ELEMENT NO. 22 MATERIAL = 2

I	J	K	U	V	W	
5	3	5	.3487E-02	.1717E-02	-.7340E-03	0.
7	3	5	.3498E-02	.1613E-02	-.7510E-03	0.
7	5	5	.3279E-02	.3279E-02	-.7770E-03	0.
5	5	5	.3382E-02	.3382E-02	-.7423E-03	0.
5	3	7	.3624E-02	.1830E-02	-.1171E-02	0.
7	3	7	.3641E-02	.1707E-02	-.1182E-02	0.
7	5	7	.3496E-02	.3496E-02	-.1203E-02	0.
5	5	7	.3521E-02	.3521E-02	-.1194E-02	0.
6	3	5	.3492E-02	.1665E-02	-.7424E-03	
7	4	5	.3619E-02	.2551E-02	-.7789E-03	
6	5	5	.3298E-02	.3298E-02	-.7596E-03	
5	4	5	.3613E-02	.2612E-02	-.7414E-03	
5	3	6	.3562E-02	.1778E-02	-.9509E-03	
7	3	6	.3576E-02	.1662E-02	-.9675E-03	
7	5	6	.3401E-02	.3401E-02	-.9923E-03	
5	5	6	.3425E-02	.3425E-02	-.9626E-03	
6	3	7	.3633E-02	.1760E-02	-.1177E-02	
7	4	7	.3634E-02	.2723E-02	-.1199E-02	
6	5	7	.3509E-02	.3509E-02	-.1134E-02	
5	4	7	.3629E-02	.2792E-02	-.1181E-02	

STRESSES FOR BRICK ELEMENT NO. 22 MATERIAL = 2

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
190	.23E+01	.94E+00	.12E+01	.56E+04 -.17E-03	.40E+05 .13E-02	-.38E+04 -.58E-03	-.17E+05 -.15E-02	.72E+03 .63E-04	.67E+02 .58E-05	.47E+05 .16E-02	-.14E+04 -.48E-03	-.39E+04 -.58E-03	.25E+05 .22E-02
191	.23E+01	.96E+00	.12E+01	.98E+04 -.88E-04	.43E+05 .14E-02	-.18E+04 -.59E-03	-.17E+05 -.14E-02	-.42E+02 -.37E-05	.20E+03 .17E-04	.50E+05 .17E-02	.29E+04 -.38E-03	-.18E+04 -.59E-03	.26E+05 .22E-02
192	.18E+01	.18E+01	.12E+01	.25E+05 .58E-03	.26E+05 .66E-03	-.23E+04 -.59E-03	-.25E+05 -.21E-02	.17E+03 .15E-04	.13E+03 .11E-04	.59E+05 .17E-02	.10E+04 -.45E-03	-.23E+04 -.59E-03	.26E+05 .23E-02
193	.17E+01	.17E+01	.12E+01	.22E+05 .54E-03	.24E+05 .62E-03	-.40E+04 -.59E-03	-.24E+05 -.21E-02	.31E+03 .27E-04	.22E+03 .19E-04	.47E+05 .16E-02	-.11E+04 -.47E-03	-.41E+04 -.60E-03	.26E+05 .22E-02
194	.23E+01	.94E+00	.19E+01	.80E+04 -.14E-03	.43E+05 .14E-02	-.28E+04 -.60E-03	-.18E+05 -.15E-02	.46E+03 .40E-04	.42E+02 .37E-05	.50E+05 .17E-02	.69E+03 -.45E-03	-.28E+04 -.60E-03	.26E+05 .23E-02
195	.23E+01	.96E+00	.19E+01	.51E+04 -.14E-03	.45E+05 .14E-02	-.11E+04 -.58E-03	-.18E+05 -.16E-02	.18E+03 .15E-04	.52E+03 .45E-04	.53E+05 .17E-02	.17E+04 -.44E-03	-.12E+04 -.58E-03	.27E+05 .23E-02
196	.18E+01	.18E+01	.19E+01	.25E+05 .58E-03	.27E+05 .65E-03	-.14E+04 -.56E-03	-.27E+05 -.23E-02	.41E+03 .35E-04	.34E+03 .29E-04	.53E+05 .19E-02	-.39E+03 -.52E-03	-.16E+04 -.58E-03	.27E+05 .24E-02
197	.17E+01	.17E+01	.19E+01	.25E+05 .58E-03	.27E+05 .66E-03	-.25E+04 -.60E-03	-.25E+05 -.21E-02	.18E+03 .16E-04	.16E+03 .14E-04	.50E+05 .17E-02	.96E+03 -.45E-03	-.26E+04 -.60E-03	.26E+05 .23E-02
198	.21E+01	.14E+01	.16E+01	.13E+05 .18E-03	.31E+05 .93E-03	-.45E+04 -.59E-03	-.21E+05 -.18E-02	.16E+03 .14E-04	-.16E+03 -.14E-04	.45E+05 .15E-02	-.96E+03 -.43E-03	-.45E+04 -.59E-03	.25E+05 .21E-02

DISPLACEMENTS FOR BRICK ELEMENT NO. 23 MATERIAL = 2

I	J	K	U	V	W	
5	1	7	.3089E-02	-.1244E-12	-.1158E-02	0.
7	1	7	.3059E-02	-.1655E-12	-.1160E-02	0.
7	3	7	.3641E-02	.1707E-02	-.1182E-02	0.
5	3	7	.3624E-02	.1830E-02	-.1171E-02	0.
5	1	9	.2446E-02	-.1283E-12	-.1530E-02	0.
7	1	9	.2421E-02	-.1786E-12	-.1318E-02	0.
7	3	9	.3165E-02	.1520E-02	-.1351E-02	0.
5	3	9	.3140E-02	.1694E-02	-.1330E-02	0.
6	1	7	.3073E-02	.1999E-12	-.1159E-02	
7	2	7	.3229E-02	.7788E-03	-.1165E-02	
6	3	7	.3633E-02	.1768E-02	-.1177E-02	
5	2	7	.3248E-02	.8496E-03	-.1162E-02	
5	1	8	.2947E-02	.6324E-12	-.1343E-02	
7	1	8	.2917E-02	.9843E-12	-.1248E-02	
7	3	8	.3547E-02	.1677E-02	-.1274E-02	
5	3	8	.3529E-02	.1805E-02	-.1351E-02	
6	1	9	.2435E-02	.1895E-12	-.1422E-02	
7	2	9	.2648E-02	.6738E-03	-.1334E-02	
6	3	9	.3154E-02	.1587E-02	-.1439E-02	
5	2	9	.2861E-02	.7588E-03	-.1330E-02	

STRESSES FOR BRICK ELEMENT NO. 23 MATERIAL = 2

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
199	.24E+01	0.	.19E+01	-.45E+04	.43E+05	-.12E+05	.12E+04	-.23E+02	.14E+04	.43E+05	-.45E+04	-.12E+05	.28E+05
				-.46E-03	.16E-02	-.79E-03	.11E-03	-.20E-05	.12E-03	.16E-02	-.45E-03	-.80E-03	.24E-02
200	.25E+01	0.	.19E+01	.15E+04	.43E+05	.78E+03	.11E+04	.35E+02	.17E+04	.43E+05	.28E+04	-.57E+03	.22E+05
				-.39E-03	.14E-02	-.42E-03	.97E-04	.30E-05	.14E-03	.14E-02	-.33E-03	-.40E-03	.19E-02
201	.23E+01	.96E+00	.19E+01	.52E+04	.37E+05	-.31E+03	-.15E+05	.59E+03	.12E+04	.43E+05	.74E+03	-.21E+04	.23E+05
				-.19E-03	.12E-02	-.43E-03	-.13E-02	.52E-04	.11E-03	.14E-02	-.38E-03	-.51E-03	.28E-02
202	.23E+01	.94E+00	.19E+01	.29E+04	.37E+05	-.11E+05	-.17E+05	.91E+03	.80E+03	.44E+05	-.30E+04	-.11E+05	.28E+05
				-.16E-03	.13E-02	-.77E-03	-.14E-02	.79E-04	.69E-04	.16E-02	-.44E-03	-.70E-03	.24E-02
203	.24E+01	0.	.24E+01	-.17E+04	.37E+05	-.14E+05	.20E+04	.67E+02	.23E+04	.37E+05	-.13E+04	-.14E+05	.26E+05
				-.29E-03	.14E-02	-.81E-03	.17E-03	.58E-05	.20E-03	.14E-02	-.27E-03	-.83E-03	.22E-02
204	.25E+01	0.	.24E+01	-.13E+04	.35E+05	.24E+04	.19E+04	-.29E+03	.32E+03	.36E+05	.24E+04	-.14E+04	.18E+05
				-.42E-03	.12E-02	-.26E-03	.16E-03	-.26E-04	.27E-04	.12E-02	-.26E-03	-.43E-03	.16E-02
205	.23E+01	.96E+00	.24E+01	.19E+04	.30E+05	.98E+03	-.14E+05	-.99E+03	.29E+03	.38E+05	.83E+03	-.37E+04	.20E+05
				-.25E-03	.93E-03	-.38E-03	-.12E-02	-.51E-04	.21E-04	.12E-02	-.38E-03	-.49E-03	.17E-02
206	.23E+01	.94E+00	.24E+01	.41E+04	.32E+05	-.12E+05	-.13E+05	.90E+03	.15E+04	.37E+05	-.11E+04	-.13E+05	.25E+05
				-.56E-04	.11E-02	-.77E-03	-.12E-02	.78E-04	.13E-03	.14E-02	-.28E-03	-.79E-03	.22E-02
207	.24E+01	.48E+00	.22E+01	.16E+04	.46E+05	-.29E+04	-.95E+04	.79E+02	-.28E+03	.48E+05	-.34E+03	-.29E+04	.26E+05
				-.38E-03	.15E-02	-.58E-03	-.83E-03	.68E-05	-.24E-04	.16E-02	-.46E-03	-.58E-03	.22E-02

DISPLACEMENTS FOR BRICK ELEMENT NO. 24 MATERIAL = 2

I	J	K	U	V	W	
5	3	7	.3624E-02	.1830E-02	-.1171E-02	0.
7	3	7	.3641E-02	.1707E-02	-.1182E-02	0.
7	5	7	.3496E-02	.3496E-02	-.1203E-02	0.
5	5	7	.3521E-02	.3521E-02	-.1184E-02	0.
5	3	9	.3140E-02	.1654E-02	-.1530E-02	0.
7	3	9	.3165E-02	.1528E-02	-.1351E-02	0.
7	5	9	.3220E-02	.3220E-02	-.1383E-02	0.
5	5	9	.3241E-02	.3241E-02	-.1930E-02	0.
6	3	7	.3633E-02	.1768E-02	-.1177E-02	
7	4	7	.3834E-02	.2723E-02	-.1199E-02	
6	5	7	.3509E-02	.3509E-02	-.1194E-02	
5	4	7	.3825E-02	.2792E-02	-.1181E-02	
5	3	8	.3529E-02	.1805E-02	-.1351E-02	
7	3	8	.3547E-02	.1677E-02	-.1274E-02	
7	5	8	.3456E-02	.3456E-02	-.1299E-02	
5	5	8	.3488E-02	.3480E-02	-.1358E-02	
6	3	9	.3154E-02	.1587E-02	-.1439E-02	
7	4	9	.3472E-02	.2492E-02	-.1371E-02	
6	5	9	.3232E-02	.3232E-02	-.1455E-02	
5	4	9	.3455E-02	.2566E-02	-.1530E-02	

STRESSES FOR BRICK ELEMENT NO. 24 MATERIAL = 2

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
208	.23E+01	.94E+00	.19E+01	.49E+04	.48E+05	-.98E+04	-.10E+05	.90E+03	.01E+03	.47E+05	-.22E+04	-.10E+05	.29E+05
				-.14E-03	.14E-02	-.77E-03	-.15E-02	.78E-04	.70E-04	.17E-02	-.44E-03	-.78E-03	.25E-02
209	.23E+01	.96E+00	.19E+01	.12E+05	.48E+05	.49E+04	-.10E+05	.61E+03	.12E+04	.55E+05	.59E+04	.31E+04	.26E+05
				-.14E-03	.14E-02	-.43E-03	-.16E-02	.53E-04	.11E-03	.17E-02	-.38E-03	-.51E-03	.23E-02
210	.18E+01	.18E+01	.19E+01	.27E+05	.29E+05	.36E+04	-.27E+05	.75E+03	.67E+03	.55E+05	.40E+04	.10E+04	.27E+05
				.58E-03	.65E-03	-.44E-03	-.23E-02	.65E-04	.58E-04	.14E-02	-.43E-03	-.55E-03	.23E-02
211	.17E+01	.17E+01	.19E+01	.22E+05	.24E+05	-.98E+04	-.25E+05	.55E+03	.52E+03	.49E+05	-.10E+04	-.91E+04	.28E+05
				.58E-03	.66E-03	-.76E-03	-.21E-02	.47E-04	.45E-04	.17E-02	-.44E-03	-.76E-03	.25E-02
212	.23E+01	.94E+00	.24E+01	.66E+04	.36E+05	-.10E+05	-.15E+05	.10E+04	.15E+04	.42E+05	.90E+03	-.11E+05	.26E+05
				-.34E-04	.12E-02	-.77E-03	-.13E-02	.87E-04	.13E-03	.15E-02	-.28E-03	-.79E-03	.23E-02
213	.23E+01	.96E+00	.24E+01	.93E+04	.43E+05	.67E+04	-.17E+05	-.61E+03	.26E+03	.50E+05	.67E+04	.24E+04	.24E+05
				-.19E-03	.13E-02	-.30E-03	-.14E-02	-.53E-04	.22E-04	.16E-02	-.30E-03	-.49E-03	.21E-02
214	.18E+01	.18E+01	.24E+01	.23E+05	.26E+05	.47E+04	-.25E+05	-.39E+03	-.36E+02	.50E+05	.47E+04	-.30E+03	.25E+05
				.47E-03	.58E-03	-.34E-03	-.22E-02	-.33E-04	-.32E-05	.16E-02	-.34E-03	-.55E-03	.22E-02
215	.17E+01	.17E+01	.24E+01	.20E+05	.23E+05	-.91E+04	-.21E+05	.85E+03	.91E+03	.43E+05	.86E+03	-.93E+04	.26E+05
				.54E-03	.66E-03	-.74E-03	-.18E-02	.73E-04	.79E-04	.15E-02	-.31E-03	-.74E-03	.23E-02
216	.21E+01	.14E+01	.22E+01	.13E+05	.30E+05	-.38E+04	-.21E+05	.25E+02	-.19E+03	.44E+05	-.97E+03	-.38E+04	.24E+05
				.17E-03	.91E-03	-.56E-03	-.18E-02	.22E-05	-.17E-04	.15E-02	-.44E-03	-.56E-03	.21E-02

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST ELEMENT I	J	K	POINT NO.	STRESS	SECOND ELEMENT I	J	K	POINT NO.	STRESS	THIRD ELEMENT I	J	K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	1	1	4	-.837E+03	1	1	1	1	-.841E+03	1	3	1	10	-.841E+03
SIGMA MIN	3	1	1	20	-.169E+04	3	1	1	21	-.168E+04	3	3	1	29	-.168E+04
TAU MAX	1	1	5	73	.276E+03	1	1	3	41	.276E+03	1	1	7	37	.275E+03
EPS MAX	1	1	1	4	.234E-01	1	1	1	5	.231E-01	1	3	1	10	.231E-01
EPS MIN	1	1	5	73	-.292E-01	1	1	3	41	-.292E-01	1	1	5	77	-.292E-01
GAMMA MAX	1	1	5	73	.436E-01	1	1	3	41	.435E-01	1	1	3	87	.434E-01
MATERIAL NUMBER = 2															
SIGMA MAX	5	3	7	209	.551E+05	5	3	7	210	.547E+05	5	3	1	155	.543E+05
SIGMA MIN	5	1	7	203	-.142E+05	5	1	7	206	-.127E+05	5	1	7	199	-.124E+05
TAU MAX	5	3	1	154	.298E+05	5	3	1	157	.289E+05	5	3	7	208	.285E+05
EPS MAX	5	3	1	156	.178E-02	5	3	7	210	.177E-02	5	3	5	196	.177E-02
EPS MIN	5	1	7	203	-.832E-03	5	1	7	199	-.803E-03	5	3	7	212	-.787E-03
GAMMA MAX	5	3	1	154	.252E-02	5	3	1	157	.251E-02	5	3	7	208	.247E-02

TIME IN POST = 3.897 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 16

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 19

COARSE GRID ELEMENT = 5

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	30101	.948E+00	0.	.463E+00	11	30302	.123E+01	.511E+00	.463E+00
2	30103	.169E+01	0.	.463E+00	12	30201	.921E+00	.183E+00	.463E+00
3	30303	.166E+01	.663E+00	.463E+00	13	40101	.120E+01	0.	.854E+00
4	30301	.868E+00	.360E+00	.463E+00	14	40103	.182E+01	0.	.844E+00
5	50101	.154E+01	0.	.120E+01	15	40303	.165E+01	.652E+00	.838E+00
6	50103	.199E+01	0.	.120E+01	16	40301	.995E+00	.392E+00	.844E+00
7	50303	.172E+01	.640E+00	.120E+01	17	50102	.177E+01	0.	.120E+01
8	50301	.116E+01	.345E+00	.120E+01	18	50203	.192E+01	.363E+00	.120E+01
9	30102	.132E+01	0.	.463E+00	19	50302	.143E+01	.489E+00	.120E+01
10	30203	.169E+01	.336E+00	.463E+00	20	50201	.140E+01	.244E+00	.120E+01

FINE GRID ELEMENT = 1

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD

2	3	1	3	.132E+01	0.	.463E+00	12	1	2	3	.939E+00	.926E-01	.463E+00
3	3	3	3	.131E+01	.260E+00	.463E+00	13	1	1	4	.186E+01	0.	.664F+00
4	1	3	3	.921E+00	.183E+00	.463E+00	14	3	1	4	.141E+01	0.	.660F+00
5	1	1	5	.120E+01	0.	.854E+00	15	3	3	4	.138E+01	.270E+00	.657E+00
6	3	1	5	.151E+01	0.	.849E+00	16	1	3	4	.182E+01	.198E+00	.660F+00
7	3	3	5	.146E+01	.281E+00	.845E+00	17	2	1	5	.138E+01	0.	.852E+00
8	1	3	5	.113E+01	.213E+00	.849E+00	18	3	2	5	.158E+01	.148E+00	.847E+00
9	2	1	3	.113E+01	0.	.463E+00	19	2	3	5	.129E+01	.247E+00	.847E+00
10	3	2	3	.132E+01	.131E+00	.463E+00	20	1	2	5	.117E+01	.116E+00	.852F+00

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	4	.1473E-01
2	4	.3947E-02
3	4	-.2136E-01
1	1	.1519E-01
2	1	.3898E-09
3	1	-.2204E-01
1	5	.9150E-02
2	5	-.1026E-08
3	5	-.1810E-01
1	8	.9248E-02
2	8	.3908E-02
3	8	-.1756E-01
1	12	.1498E-01
2	12	.2856E-02
3	12	-.2172E-01
1	13	.1102E-01
2	13	-.6569E-09
3	13	-.2023E-01
1	20	.9158E-02
2	20	.2014E-02
3	20	-.1783E-01
1	16	.1172E-01
2	16	.3892E-02
3	16	-.1959E-01
1	2	.9539E-02
2	2	-.1842E-08
3	2	-.1530E-01
1	6	.5956E-02
2	6	-.2135E-08
3	6	-.1171E-01
1	9	.1205E-01
2	9	-.6807E-09
3	9	-.1849E-01
1	14	.7517E-02
2	14	-.1936E-08
3	14	-.1355E-01
1	17	.7336E-02
2	17	-.1849E-08
3	17	-.1467E-01
1	3	.9279E-02
2	3	.2137E-02
3	3	-.1511E-01
1	11	.1170E-01
2	11	.2914E-02
3	11	-.1815E-01
1	10	.9414E-02
2	10	.1106E-02
3	10	-.1518E-01

FINE GRID ELEMENT = 2

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	1	1	5	.120E+01	0.	.854E+00	11	2	3	5	.129E+01	.247E+00	.847E+00
2	3	1	5	.151E+01	0.	.849E+00	12	1	2	5	.117E+01	.116E+00	.852E+00

4	1	3	5	.113E+01	.213E+00	.849E+00	14	3	1	6	.163E+01	0.		.183E+01
5	1	1	7	.194E+01	0.	.120E+01	15	3	3	6	.155E+01	.291E+00		.183E+01
6	3	1	7	.177E+01	0.	.12EE+01	16	1	3	6	.126E+01	.229E+00		.183E+01
7	3	3	7	.166E+01	.302E+00	.120E+01	17	2	1	7	.166E+01	0.		.120E+01
8	1	3	7	.140E+01	.244E+00	.120E+01	18	3	2	7	.173E+01	.165E+00		.120E+01
9	2	1	5	.136E+01	0.	.852E+00	19	2	3	7	.153E+01	.272E+00		.12EE+01
10	3	2	5	.150E+01	.146E+00	.847E+00	20	1	2	7	.140E+01	.140E+00		.128E+01

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	4	.9240E-02
2	4	.3980E-02
3	4	-.1756E-01
1	1	.9150E-02
2	1	-.1026E-08
3	1	-.1810E-01
1	5	.5896E-02
2	5	.2074E-09
3	5	-.1208E-01
1	8	.5879E-02
2	8	.4150E-02
3	8	-.127CE-01
1	12	.9158E-02
2	12	.2014E-02
3	12	-.1783E-01
1	13	.7174E-02
2	13	-.7181E-09
3	13	-.1989E-01
1	20	.5790E-02
2	20	.2111E-02
3	20	-.1277E-01
1	16	.7292E-02
2	16	.3994E-02
3	16	-.1926E-01
1	2	.5956E-02
2	2	-.2135E-C8
3	2	-.1171E-01
1	6	.4214E-02
2	6	-.450EE-09
3	6	-.7780E-02
1	9	.7336E-02
2	9	-.1849E-08
3	9	-.1467E-01
1	14	.4855E-02
2	14	-.1640E-C8
3	14	-.9790E-02
1	17	.4940E-02
2	17	-.2740E-09
3	17	-.1004E-01
1	7	.4882E-02
2	7	.1813E-02
3	7	-.8929E-02
1	18	.4474E-02
2	18	.8672E-03
3	18	-.8284E-02
1	19	.5378E-02
2	19	.2816E-02
3	19	-.1077E-01

FINE GRID ELEMENT = 3

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	1	3	3	.921E+00	.183E+00	.463E+00	11	2	5	3	.185E+01	.435E+00	.463E+00
2	3	3	3	.131E+01	.260E+00	.463E+00	12	1	4	3	.899E+00	.272E+00	.463E+00
3	3	5	3	.123E+01	.511E+00	.463E+00	13	1	3	4	.102E+01	.198E+00	.660E+00
4	1	5	3	.868E+00	.360E+00	.463E+00	14	3	3	4	.138E+01	.270E+00	.657E+00

6	3	3	5	.146E+01	.281E+00	.845E+00	16	1	5	6	.926E+00	.356E+00	.856E+00	
7	3	5	5	.132E+01	.500E+00	.841E+00	17	2	3	5	.129E+01	.267E+00	.847E+00	
8	1	5	5	.995E+00	.352E+00	.844E+00	18	3	4	5	.140E+01	.398E+00	.843E+00	
9	2	3	3	.111E+01	.221E+00	.463E+00	19	2	5	5	.116E+01	.426E+00	.842E+00	
10	3	4	3	.128E+01	.386E+00	.463E+00	20	1	4	5	.187E+01	.292E+78	.846E+00	

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	4	.1411E-01
2	4	.7230E-02
3	4	-.2051E-01
1	1	.1473E-01
2	1	.3947E-02
3	1	-.2136E-01
1	5	.9240E-02
2	5	.3980E-02
3	5	-.1756E-01
1	8	.9629E-02
2	8	.7339E-02
3	8	-.1701E-01
1	12	.1444E-01
2	12	.5671E-02
3	12	-.2096E-01
1	13	.1172E-01
2	13	.3892E-02
3	13	-.1959E-01
1	20	.9397E-02
2	20	.5603E-02
3	20	-.1729E-01
1	16	.1160E-01
2	16	.7214E-02
3	16	-.1887E-01
1	3	.8976E-02
2	3	.3978E-02
3	3	-.1510E-01
1	7	.7101E-02
2	7	.3642E-02
3	7	-.1363E-01
1	11	.1124E-01
2	11	.5349E-02
3	11	-.1780E-01
1	19	.8272E-02
2	19	.5198E-02
3	19	-.1512E-01
1	15	.7924E-02
2	15	.3731E-02
3	15	-.1411E-01
1	2	.9279E-02
2	2	.2137E-02
3	2	-.1511E-01
1	10	.9133E-02
2	10	.3095E-02
3	10	-.1508E-01
1	9	.1170E-01
2	9	.2914E-02
3	9	-.1815E-01

FINE GRID ELEMENT = 4

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	1	3	5	.113E+01	.213E+00	.849E+00	11	2	5	5	.116E+01	.426E+00	.842E+00
2	3	3	5	.146E+01	.281E+00	.845E+00	12	1	4	5	.107E+01	.292E+00	.846E+00
3	3	5	5	.132E+01	.500E+00	.841E+00	13	1	3	6	.126E+01	.229E+00	.103E+01
4	1	5	5	.995E+00	.352E+00	.844E+00	14	3	3	6	.159E+01	.291E+00	.103E+01
5	1	3	7	.140E+01	.246E+00	.12CE+01	15	3	5	6	.137E+01	.495E+00	.102E+01
6	3	3	7	.166E+01	.302E+00	.12CE+01	16	1	5	6	.107E+01	.348E+00	.103E+01

8	1	5	7	.116E+01	.365E+00	.128E+01	18	3	4	7	.156E+01	.418E+00	.128E+01
9	2	3	5	.129E+01	.247E+00	.847E+00	19	2	5	7	.130E+01	.416E+00	.128E+01
10	3	4	5	.140E+01	.398E+00	.843E+00	20	1	4	7	.129E+01	.312E+00	.128E+01

POINT,CLAMP,AND SLOPE TYPE BC.'

TYPE	NODE	VALUE
1	4	.9629E-02
2	4	.7339E-02
3	4	-.1781E-01
1	1	.9248E-02
2	1	.3988E-02
3	1	-.1796E-01
1	5	.5875E-02
2	5	.4158E-02
3	5	-.1278E-01
1	8	.8822E-02
2	8	.8889E-02
3	8	-.1267E-01
1	12	.9397E-02
2	12	.5683E-02
3	12	-.1729E-01
1	13	.7292E-02
2	13	.3994E-02
3	13	-.1526E-01
1	20	.6153E-02
2	20	.6116E-02
3	20	-.1267E-01
1	16	.7941E-02
2	16	.7604E-02
3	16	-.1494E-01
1	3	.7101E-02
2	3	.3642E-02
3	3	-.1303E-01
1	7	.6145E-02
2	7	.3939E-02
3	7	-.1062E-01
1	11	.8272E-02
2	11	.5198E-02
3	11	-.1512E-01
1	19	.6497E-02
2	19	.5644E-02
3	19	-.1185E-01
1	15	.6508E-02
2	15	.3711E-02
3	15	-.1187E-01
1	6	.4882E-02
2	6	.1813E-02
3	6	-.8925E-02
1	18	.5446E-02
2	18	.2837E-02
3	18	-.9703E-02
1	17	.5378E-02
2	17	.2816E-02
3	17	-.1077E-01

FINE GRID ELEMENT = 5

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	3	1	3	.132E+01	0.	.463E+00	11	4	3	3	.150E+01	.290E+00	.463E+00
2	5	1	3	.169E+01	0.	.463E+00	12	3	2	3	.132E+01	.131E+00	.463E+00
3	5	3	3	.169E+01	.336E+00	.463E+00	13	3	1	4	.141E+01	0.	.660E+00
4	3	3	3	.131E+01	.260E+00	.463E+00	14	5	1	4	.175E+01	0.	.656E+00
5	3	1	5	.151E+01	0.	.849E+00	15	5	3	4	.173E+01	.343E+00	.654E+00
6	5	1	5	.188E+01	0.	.844E+00	16	3	3	4	.139E+01	.270E+00	.697E+00
7	5	3	5	.179E+01	.350E+00	.841E+00	17	4	1	5	.167E+01	0.	.846E+00
8	3	3	5	.146E+01	.281E+00	.845E+00	18	5	2	5	.182E+01	.181E+00	.842E+00

10	5	2	3	.170E+01	.169E+00	.463E+00	20	3	2	5	.153E+01	.148E+00	.847E+00

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	2	.6448E-02
2	2	.3618E-09
3	2	-.9979E-02
1	3	.6298E-02
2	3	.1348E-02
3	3	-.9613E-02
1	7	.4781E-02
2	7	.8945E-03
3	7	-.7363E-02
1	6	.4497E-02
2	6	-.1097E-08
3	6	-.7208E-02
1	10	.6358E-02
2	10	.6653E-03
3	10	-.9734E-02
1	15	.5461E-02
2	15	.1077E-02
3	15	-.8446E-02
1	18	.4607E-02
2	18	.3059E-03
3	18	-.7195E-02
1	14	.5356E-02
2	14	-.7236E-09
3	14	-.8521E-02
1	1	.9539E-02
2	1	-.1042E-08
3	1	-.1538E-01
1	5	.5956E-02
2	5	-.2135E-08
3	5	-.1171E-01
1	9	.7670E-02
2	9	-.6948E-09
3	9	-.1246E-01
1	17	.5010E-02
2	17	-.1885E-08
3	17	-.9225E-02
1	13	.7517E-02
2	13	-.1936E-08
3	13	-.1355E-01
1	4	.9279E-02
2	4	.2137E-02
3	4	-.1511E-01
1	12	.9414E-02
2	12	.1106E-02
3	12	-.1518E-01
1	11	.7479E-02
2	11	.1615E-02
3	11	-.1227E-01

FINE GRID ELEMENT = 6

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	3	1	5	.151E+01	0.	.849E+00	11	4	3	5	.162E+01	.315E+00	.943E+00
2	5	1	5	.182E+01	0.	.844E+00	12	3	2	5	.153E+01	.148E+00	.947E+00
3	5	3	5	.179E+01	.350E+00	.841E+00	13	3	1	6	.163E+01	0.	.103E+01
4	3	3	5	.146E+01	.281E+00	.845E+00	14	5	1	6	.190E+01	0.	.103E+01
5	3	1	7	.177E+01	0.	.120E+01	15	5	3	6	.185E+01	.357E+00	.102E+01
6	5	1	7	.199E+01	0.	.120E+01	16	3	3	6	.155E+01	.291E+00	.103E+01
7	5	3	7	.192E+01	.363E+00	.120E+01	17	4	1	7	.188E+01	0.	.120E+01
8	3	3	7	.166E+01	.302E+00	.120E+01	18	5	2	7	.197E+01	.192E+00	.120E+01
9	4	1	5	.167E+01	0.	.846E+00	19	4	3	7	.173E+01	.332E+00	.120E+01
10	5	2	5	.182E+01	.181E+00	.842E+00	20	3	2	7	.173E+01	.165E+00	.120E+01

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	2	.4497E-02
2	2	-.1097E-00
3	2	-.7208E-02
1	3	.4781E-02
2	3	.6945E-03
3	3	-.7363E-02
1	7	.3895E-02
2	7	.7938E-03
3	7	-.5469E-02
1	6	.3448E-02
2	6	.2910E-09
3	6	-.5014E-02
1	10	.4607E-02
2	10	.3855E-03
3	10	-.7195E-02
1	15	.4259E-02
2	15	.6808E-03
3	15	-.6372E-02
1	18	.3619E-02
2	18	.2822E-03
3	18	-.5122E-02
1	14	.3861E-02
2	14	-.7589E-09
3	14	-.6038E-02
1	1	.5956E-02
2	1	-.2139E-08
3	1	-.1171E-01
1	5	.4214E-02
2	5	-.4505E-09
3	5	-.7780E-02
1	9	.5010E-02
2	9	-.1885E-08
3	9	-.9225E-02
1	17	.3717E-02
2	17	-.2622E-09
3	17	-.6185E-02
1	13	.4855E-02
2	13	-.1640E-08
3	13	-.9796E-02
1	8	.4882E-02
2	8	.1813E-02
3	8	-.8925E-02
1	19	.4388E-02
2	19	.1138E-02
3	19	-.7157E-02
1	20	.4474E-02
2	20	.8672E-03
3	20	-.8284E-02

FINE GRID ELEMENT = 7

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	3	3	3	.131E+01	.260E+00	.463E+00	11	4	5	3	.142E+01	.587E+00	.463E+00
2	5	3	3	.169E+01	.336E+00	.463E+00	12	3	4	3	.120E+01	.386E+00	.463E+00
3	5	5	3	.160E+01	.663E+00	.463E+00	13	3	3	4	.138E+01	.270E+00	.657E+00
4	3	5	3	.123E+01	.511E+00	.463E+00	14	5	3	4	.173E+01	.343E+00	.654E+00
5	3	3	5	.146E+01	.281E+00	.845E+00	15	5	5	4	.161E+01	.657E+00	.652E+00
6	5	3	5	.179E+01	.350E+00	.841E+00	16	3	5	4	.127E+01	.506E+00	.654E+00
7	5	5	5	.165E+01	.652E+00	.838E+00	17	4	3	5	.162E+01	.315E+00	.843E+00
8	3	5	5	.132E+01	.500E+00	.841E+00	18	5	4	5	.173E+01	.507E+00	.840E+00
9	4	3	3	.150E+01	.298E+00	.463E+00	19	4	5	5	.149E+01	.576E+00	.840E+00
10	5	4	3	.166E+01	.500E+00	.463E+00	20	3	4	5	.149E+01	.398E+00	.843E+00

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	2	.6298E-02
2	2	.1348E-02
3	2	-.9613E-02
1	3	.6244E-02
2	3	.2767E-02
3	3	-.9749E-02
1	7	.5320E-02
2	7	.2283E-02
3	7	-.8244E-02
1	6	.4701E-02
2	6	.8945E-03
3	6	-.7363E-02
1	10	.6260E-02
2	10	.2849E-02
3	10	-.9617E-02
1	15	.9736E-02
2	15	.2437E-02
3	15	-.8978E-02
1	18	.5819E-02
2	18	.1527E-02
3	18	-.7713E-02
1	14	.5461E-02
2	14	.1877E-02
3	14	-.8444E-02
1	4	.8976E-02
2	4	.3978E-02
3	4	-.1510E-01
1	8	.7101E-02
2	8	.3642E-02
3	8	-.1303E-01
1	11	.7310E-02
2	11	.3118E-02
3	11	-.1241E-01
1	16	.7924E-02
2	16	.3731E-02
3	16	-.1411E-01
1	19	.6117E-02
2	19	.2670E-02
3	19	-.1074E-01
1	1	.9279E-02
2	1	.2137E-02
3	1	-.1511E-01
1	12	.9133E-02
2	12	.3895E-02
3	12	-.1508E-01
1	9	.7479E-02
2	9	.1615E-02
3	9	-.1227E-01

FINE GRID ELEMENT = 8

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	3	3	5	.146E+01	.291E+00	.845E+00	11	4	5	5	.148E+01	.576E+00	.849E+00
2	5	3	5	.179E+01	.350E+00	.841E+00	12	3	4	5	.143E+01	.398E+00	.843E+00
3	5	5	5	.165E+01	.652E+00	.838E+00	13	3	3	6	.155E+01	.291E+00	.103E+01
4	3	5	5	.132E+01	.500E+00	.841E+00	14	5	3	6	.185E+01	.357E+00	.102E+01
5	3	3	7	.166E+01	.302E+00	.120E+01	15	5	5	6	.168E+01	.646E+00	.102E+01
6	5	3	7	.192E+01	.363E+00	.120E+01	16	3	5	6	.137E+01	.495E+00	.102E+01
7	5	5	7	.172E+01	.640E+00	.120E+01	17	4	3	7	.179E+01	.332E+00	.120E+01
8	3	5	7	.143E+01	.489E+00	.120E+01	18	5	4	7	.183E+01	.513E+00	.120F+01
9	4	3	5	.162E+01	.315E+00	.843E+00	19	4	5	7	.157E+01	.564E+00	.120F+01
10	5	4	5	.173E+01	.507E+00	.84CE+00	20	3	4	7	.156E+01	.410E+00	.120E+01

POINT,CLAMP, AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	2	.4781E-02
2	2	.9155E-03

3	2	-.7363E-02
1	3	.9320E-02
2	3	.2283E-02
3	3	-.8244E-02
1	7	.4763E-02
2	7	.2985E-02
3	7	-.6878E-02
1	6	.3695E-02
2	6	.7930E-03
3	6	-.5469E-02
1	10	.5819E-02
2	10	.1927E-02
3	10	-.7713E-02
1	15	.4995E-02
2	15	.2306E-02
3	15	-.7944E-02
1	18	.4276E-02
2	18	.1939E-02
3	18	-.6054E-02
1	14	.4259E-02
2	14	.8888E-03
3	14	-.5372E-02
1	4	.7181E-02
2	4	.3642E-02
3	4	-.1383E-01
1	8	.6149E-02
2	8	.3939E-02
3	8	-.1002E-01
1	11	.6117E-02
2	11	.2678E-02
3	11	-.1074E-01
1	16	.6588E-02
2	16	.3711E-02
3	16	-.1187E-01
1	19	.5567E-02
2	19	.2893E-02
3	19	-.8959E-02
1	5	.4082E-02
2	5	.1813E-02
3	5	-.6925E-02
1	20	.5440E-02
2	20	.2837E-02
3	20	-.9703E-02
1	17	.4388E-02
2	17	.1138E-02
3	17	-.7197E-02

TIME IN REZONE = 1.281 SECONDS

TIME IN FORMKF = 3.690 SECONDS

TIME IN PREFRONT = .389

TOTAL NUMBER OF D.O.F.'S = 270

D.O.F. IN FRONT = 112

MAXIMUM ACTIVE STORAGE = 8966

TOTAL NICKNAME STORAGE = 224

BUFFER LENGTH = 18033

TIME IN FORWARD ELIMINATION = 7.523

NUMBER OF SECTORS/PROCS = 284

NUMBER OF SECTORS(PASS) = 201

TIME IN BACKSUBSTITUTION = .659

TIME IN ZIPP = 8.494 SECONDS

BLOCK OPTION

BOUNDS

	MIN	MAX		MIN	MAX
X	-.1000E+21	.1000E+21	I	0	0
Y	-.1000E+21	.1000E+21	J	0	0
Z	-.1000E+21	.1000E+21	K	0	0

PRINT LEVEL = 4

STRESS POINTS FOR BRICK(DEGEN) ELEMENTS

POINT	S1	S2	S3
1	-1.000	-1.000	-1.000
2	1.000	-1.000	-1.000
3	1.000	1.000	-1.000
4	-1.000	1.000	-1.000
5	-1.000	-1.000	1.000
6	1.000	-1.000	1.000
7	1.000	1.000	1.000
8	-1.000	1.000	1.000
9	0.000	0.000	0.000

STRESS POINTS FOR PRISM ELEMENTS

POINT	S1	S2	S3	S4
1	1.000	0.000	0.000	-1.000
2	0.000	1.000	0.000	-1.000
3	0.000	0.000	1.000	-1.000
4	1.000	0.000	0.000	1.000
5	0.000	1.000	0.000	1.000
6	0.000	0.000	1.000	1.000
7	.333	.333	.333	0.000

STRESS POINTS FOR WEDGE ELEMENTS

POINT	S1	S2	S3
1	.050	0.000	-1.000
2	1.000	0.000	-1.000
3	1.000	1.000	-1.000
4	.050	0.000	1.000
5	1.000	0.000	1.000
6	1.000	1.000	1.000
7	.667	.500	0.000

STRESS POINTS FOR TETRA ELEMENTS

POINT	S1	S2	S3	S4
1	1.000	0.000	0.000	0.000
2	0.000	1.000	0.000	0.000
3	0.000	0.000	1.000	0.000
4	0.000	0.000	0.000	1.000
5	.250	.250	.250	.250

DISPLACEMENTS FOR BRICKH ELEMENT NO. 1 MATERIAL = 1

I	J	K	U	V	W	H
1	1	3	.1519E-01	.3898E-09	-.2204E-01	.1106E+00
3	1	3	.9539E-02	-.1042E-08	-.1938E-01	-.1437E+01
3	3	3	.9279E-02	.2137E-02	-.1511E-01	.9537E-01
1	3	3	.1473E-01	.3947E-02	-.2136E-01	.1359E+01
1	1	5	.9158E-02	-.1825E-08	-.1810E-01	.1505E+01
3	1	5	.5956E-02	-.2135E-08	-.1171E-01	.2160E+00
3	3	5	.6460E-02	.1518E-02	-.1195E-01	.2179E+00
1	3	5	.9240E-02	.3908E-02	-.1756E-01	-.1298E+01
2	1	3	.1205E-01	-.6987E-09	-.1849E-01	
3	2	3	.9414E-02	.1106E-02	-.1518E-01	
2	3	3	.1176E-01	.2914E-02	-.1815E-01	
1	2	3	.1498E-01	.2056E-02	-.2172E-01	
1	1	4	.1182E-01	-.6569E-09	-.2023E-01	
3	1	4	.7517E-02	-.1936E-08	-.1355E-01	
3	3	4	.7869E-02	.2431E-02	-.1300E-01	
1	3	4	.1172E-01	.3892E-02	-.1959E-01	
2	1	5	.7336E-02	-.1849E-08	-.1467E-01	
3	2	5	.6628E-02	.9415E-03	-.1313E-01	
2	3	5	.6721E-02	.2720E-02	-.1466E-01	
1	2	5	.9158E-02	.2014E-02	-.1783E-01	

STRESSES FOR BRICKH ELEMENT NO. 1 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
1	.94E+00	0.	.46E+00	.47E+03	.99E+03	.67E+03	-.14E+02	.21E+02	.74E+02	.99E+03	.69E+03	.44E+03	.28E+03
				-.18E-01	.23E-01	-.26E-02	-.22E-02	.34E-02	.12E-01	.23E-01	-.76E-03	-.20E-01	.43E-01
2	.13E+01	0.	.46E+00	-.92E+04	-.90E+04	-.91E+04	-.68E+00	-.65E+00	.61E+02	-.90E+04	-.90E+04	-.93E+04	.16E+03
				-.12E-01	.87E-02	.19E-02	-.11E-03	-.10E-03	.96E-02	.87E-02	.34E-02	-.13E-01	.22E-01
3	.13E+01	.26E+00	.46E+00	.47E+03	.69E+03	.71E+03	-.48E+02	.54E+02	.72E+02	.76E+03	.68E+03	.44E+03	.16E+03
				-.10E-01	.70E-02	.85E-02	-.76E-02	.85E-02	.11E-01	.12E-01	.68E-02	-.13E-01	.25E-01
4	.92E+00	.18E+00	.46E+00	.84E+04	.88E+04	.86E+04	-.18E+03	.63E+02	.45E+02	.89E+04	.86E+04	.84E+04	.29E+03
				-.16E-01	.18E-01	.53E-03	-.16E-01	.99E-02	.72E-02	.21E-01	.78E-03	-.19E-01	.40E-01
5	.12E+01	0.	.85E+00	.94E+04	.97E+04	.94E+04	-.14E+02	.35E+02	.14E+03	.97E+04	.95E+04	.93E+04	.24E+03
				-.13E-01	.17E-01	-.67E-02	-.22E-02	.55E-02	.21E-01	.17E-01	.12E-02	-.21E-01	.38E-01
6	.15E+01	0.	.85E+00	.13E+04	.15E+04	.14E+04	.42E+02	-.11E+03	.94E+02	.15E+04	.14E+04	.12E+04	.17E+03
				-.75E-02	.72E-02	-.51E-03	.67E-02	-.17E-01	.15E-01	.13E-01	.14E-02	-.15E-01	.27E-01
7	.15E+01	.26E+00	.84E+04	.15E+04	.14E+04	.13E+04	-.64E+02	.12E+03	.30E+01	.15E+04	.14E+04	.12E+04	.15E+03
				.57E-02	.17E-03	-.38E-02	-.10E-01	.19E-01	.47E-03	.11E-01	.34E-02	-.12E-01	.23E-01
8	.11E+01	.21E+00	.85E+00	-.82E+04	-.78E+04	-.80E+04	-.13E+03	.12E+03	.11E+03	-.77E+04	-.79E+04	-.83E+04	.30E+03
				-.20E-01	.15E-01	.37E-03	-.21E-01	.18E-01	.18E-01	.20E-01	.25E-02	-.20E-01	.48E-01
9	.12E+01	.12E+00	.66E+00	.51E+03	.80E+03	.62E+03	-.40E+02	.36E+02	.65E+02	.81E+03	.65E+03	.47E+03	.17E+03
				-.11E-01	.13E-01	-.13E-02	-.63E-02	.56E-02	.10E-01	.13E-01	.82E-03	-.14E-01	.27E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 2 MATERIAL = 1

I	J	K	U	V	W	H
1	1	5	.9158E-02	-.1826E-08	-.1810E-01	.1505E+01
3	1	5	.9956E-02	-.2135E-08	-.1171E-01	.2168E+00
3	3	5	.6468E-02	.1518E-02	-.1195E-01	.2179E+00
1	3	5	.9248E-02	.3908E-02	-.1756E-01	-.1259E+01
1	1	7	.5896E-02	.2674E-09	-.1288E-01	-.3645E+01
3	1	7	.4214E-02	-.4505E-09	-.7780E-02	-.4643E+00
3	3	7	.4882E-02	.1813E-02	-.8925E-02	-.2087E+00
1	3	7	.5873E-02	.4150E-02	-.1270E-01	.2488E+01
2	1	5	.7336E-02	-.1849E-08	-.1467E-01	
3	2	5	.6628E-02	.9415E-03	-.1313E-01	
2	3	5	.6721E-02	.2720E-02	-.1466E-01	
1	2	5	.9158E-02	.2814E-02	-.1763E-01	
1	1	6	.7174E-02	-.7181E-09	-.1565E-01	
3	1	6	.4899E-02	-.1840E-08	-.9790E-02	
3	3	6	.5728E-02	.9091E-03	-.9982E-02	
1	3	6	.7292E-02	.3994E-02	-.1526E-01	
2	1	7	.4948E-02	-.2740E-09	-.1004E-01	
3	2	7	.4474E-02	.8672E-03	-.8284E-02	
2	3	7	.5378E-02	.2816E-02	-.1077E-01	
1	2	7	.5798E-02	.2111E-02	-.1277E-01	

STRESSES FOR BRICKH ELEMENT NO. 2 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
10	.12E+01	0.	.85E+00	.94E+04	.97E+04	.94E+04	-.14E+02	.35E+02	.14E+03	.97E+04	.95E+04	.93E+04	.24E+03
				-.13E-01	.17E-01	-.67E-02	-.22E-02	.55E-02	.21E-01	.17E-01	.12E-02	-.21E-01	.38E-01
11	.15E+01	0.	.85E+00	.13E+04	.15E+04	.14E+04	.42E+02	-.11E+03	.94E+02	.15E+04	.14E+04	.12E+04	.17E+03
				-.75E-02	.72E-02	-.51E-03	.67E-02	-.17E-01	.15E-01	.13E-01	.14E-02	-.15E-01	.27E-01
12	.15E+01	.28E+00	.84E+00	.15E+04	.14E+04	.15E+04	-.64E+02	.13E+03	.38E+02	.15E+04	.15E+04	.13E+04	.15E+03
				.58E-02	.19E-03	.66E-02	-.10E-01	.20E-01	.47E-02	.14E-01	.76E-02	-.92E-02	.23E-01
13	.11E+01	.21E+00	.85E+00	-.82E+04	-.78E+04	-.80E+04	-.13E+03	.12E+03	.11E+03	-.77E+04	-.79E+04	-.83E+04	.30E+03
				-.20E-01	.15E-01	.37E-03	-.21E-01	.10E-01	.10E-01	.20E-01	.25E-02	-.28E-01	.48E-01
14	.19E+01	0.	.12E+01	-.23E+05	-.23E+05	-.23E+05	-.26E+02	.57E+02	.21E+03	-.23E+05	-.23E+05	-.23E+05	.28E+03
				-.95E-02	.14E-01	-.14E-01	-.41E-02	.90E-02	.33E-01	.14E-01	.46E-02	-.29E-01	.44E-01
15	.19E+01	0.	.12E+01	-.30E+04	-.29E+04	-.30E+04	.91E+00	.27E+01	.12E+03	-.29E+04	-.29E+04	-.31E+04	.13E+03
				-.54E-02	.46E-02	-.26E-02	.14E-03	.43E-03	.20E-01	.59E-02	.46E-02	-.14E-01	.20E-01
16	.17E+01	.30E+00	.12E+01	-.14E+04	-.13E+04	-.14E+04	-.39E+02	.11E+03	.67E+02	-.12E+04	-.13E+04	-.15E+04	.14E+03
				-.41E-02	.31E-02	-.52E-02	-.61E-02	.17E-01	.11E-01	.86E-02	-.45E-03	-.14E-01	.23E-01
17	.14E+01	.24E+00	.12E+01	.16E+05	.16E+05	.16E+05	-.98E+02	.17E+03	.57E+02	.16E+05	.16E+05	.16E+05	.22E+03
				-.36E-02	.81E-02	.36E-02	-.16E-01	.27E-01	.89E-02	.28E-01	.27E-02	-.14E-01	.34E-01
18	.15E+01	.14E+00	.10E+01	-.98E+03	-.82E+03	-.98E+03	-.49E+02	.61E+02	.97E+02	-.79E+03	-.85E+03	-.11E+04	.14E+03
				-.58E-02	.70E-02	.81E-03	-.78E-02	.97E-02	.15E-01	.97E-02	.50E-02	-.13E-01	.22E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 3 MATERIAL = 1

I	J	K	U	V	W	H
1	3	3	.1473E-01	.3947E-02	-.2136E-01	.1359E+01
3	3	3	.9279E-02	.2137E-02	-.1911E-01	.9937E-01
3	5	3	.8976E-02	.3978E-02	-.1510E-01	-.1203E+01
1	5	3	.1411E-01	.7230E-02	-.2051E-01	.7116E+00
1	3	5	.9240E-02	.3908E-02	-.1756E-01	-.1258E+01
3	3	5	.6466E-02	.1518E-02	-.1195E-01	.2179E+00
3	5	5	.7161E-02	.3642E-02	-.1303E-01	.2526E+00
1	1	1	.9829E-02	.7339E-02	-.1701E-01	.5200E+00
2	3	3	.1178E-01	.2914E-02	-.1915E-01	
3	4	3	.9133E-02	.3095E-02	-.1508E-01	
2	5	3	.1124E-01	.5349E-02	-.1780E-01	
1	4	3	.1444E-01	.5671E-02	-.2096E-01	
1	3	4	.1172E-01	.3892E-02	-.1959E-01	
3	3	4	.7089E-02	.2431E-02	-.1306E-01	
3	5	4	.7924E-02	.3731E-02	-.1411E-01	
1	5	4	.1168E-01	.7214E-02	-.1887E-01	
2	3	5	.6721E-02	.2720E-02	-.1466E-01	
3	4	5	.6712E-02	.2200E-02	-.1154E-01	
2	5	5	.8272E-02	.5198E-02	-.1512E-01	
1	4	5	.9397E-02	.5683E-02	-.1729E-01	

STRESSES FOR BRICKH ELEMENT NO. 3 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
19	.92E+00	.10E+00	.46E+00	.84E+04	.88E+04	.86E+04	-.10E+03	.63E+02	.45E+02	.89E+04	.86E+04	.84E+04	.25E+03
				-.16E-01	.18E-01	.53E-03	-.16E-01	.99E-02	.72E-02	.21E-01	.78E-03	-.19E-01	.40E-01
20	.13E+01	.26E+00	.46E+00	.47E+03	.69E+03	.71E+03	-.48E+02	.54E+02	.72E+02	.76E+03	.60E+03	.44E+03	.16E+03
				-.10E-01	.70E-02	.85E-02	-.76E-02	.85E-02	.11E-01	.12E-01	.60E-02	-.13E-01	.25E-01
21	.12E+01	.51E+00	.46E+00	-.77E+04	-.76E+04	-.76E+04	-.79E+02	.38E+02	.51E+02	-.75E+04	-.76E+04	-.78E+04	.12E+03
				-.87E-02	.37E-02	.28E-02	-.13E-01	.47E-02	.81E-02	.65E-02	.40E-02	-.13E-01	.19E-01
22	.97E+00	.36E+00	.46E+00	.43E+04	.46E+04	.40E+04	-.16E+03	.89E+02	.61E+01	.47E+04	.49E+04	.43E+04	.24E+03
				-.13E-01	.11E-01	.51E-02	-.26E-01	.14E-01	.97E-03	.19E-01	.27E-02	-.19E-01	.38E-01
23	.11E+01	.21E+00	.85E+00	-.82E+04	-.78E+04	-.80E+04	-.13E+03	.12E+03	.11E+03	-.77E+04	-.79E+04	-.83E+04	.30E+03
				-.20E-01	.15E-01	.37E-03	-.21E-01	.18E-01	.18E-01	.20E-01	.25E-02	-.20E-01	.48E-01
24	.15E+01	.28E+00	.84E+00	.14E+04	.14E+04	.13E+04	-.27E+02	.70E+02	.15E+02	.14E+04	.14E+04	.13E+04	.80E+02
				.45E-02	-.49E-03	-.41E-02	-.43E-02	.11E-01	.24E-02	.54E-02	.30E-02	-.85E-02	.14E-01
25	.13E+01	.50E+00	.84E+00	.15E+04	.17E+04	.16E+04	-.00E+02	-.36E+02	.97E+02	.18E+04	.16E+04	.14E+04	.18E+03
				-.61E-02	.83E-02	.18E-02	-.13E-01	-.57E-02	.15E-01	.13E-01	.16E-02	-.12E-01	.25E-01
26	.99E+00	.35E+00	.84E+00	.32E+04	.33E+04	.34E+04	-.14E+03	.14E+03	-.18E+02	.35E+04	.33E+04	.31E+04	.22E+03
				-.64E-02	.38E-02	.98E-02	-.23E-01	.22E-01	-.29E-02	.20E-01	.85E-03	-.15E-01	.35E-01
27	.12E+01	.34E+00	.66E+00	.42E+03	.63E+03	.59E+03	-.76E+02	.54E+02	.57E+02	.67E+03	.60E+03	.37E+03	.15E+03
				-.10E-01	.60E-02	.31E-02	-.12E-01	.85E-02	.89E-02	.94E-02	.35E-02	-.14E-01	.23E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 4 MATERIAL = 1

I	J	K	U	V	W	H
1	3	5	.9240E-02	.3908E-02	-.1756E-01	-.1258E+01
3	3	5	.8460E-02	.1518E-02	-.1199E-01	.2179E+00
3	5	5	.7181E-02	.3642E-02	-.1303E-01	.2526E+00
1	5	5	.9629E-02	.7339E-02	-.1781E-01	.9200E+00
1	3	7	.5875E-02	.4158E-02	-.1270E-01	.2488E+01
3	3	7	.4882E-02	.1813E-02	-.8925E-02	-.2087E+00
3	5	7	.6145E-02	.3939E-02	-.1862E-01	-.1000E+01
1	5	7	.6822E-02	.8009E-02	-.1257E-01	.7500E+00
2	3	5	.6721E-02	.2722E-02	-.1466E-01	
3	4	5	.6712E-02	.2200E-02	-.1154E-01	
2	5	5	.8272E-02	.5198E-02	-.1512E-01	
1	4	5	.9397E-02	.5683E-02	-.1729E-01	
1	3	6	.7292E-02	.3994E-02	-.1526E-01	
3	3	6	.5728E-02	.9091E-03	-.9982E-02	
3	5	6	.6588E-02	.3711E-02	-.1187E-01	
1	5	6	.7941E-02	.7604E-02	-.1494E-01	
2	3	7	.5378E-02	.2816E-02	-.1077E-01	
3	4	7	.5440E-02	.2837E-02	-.9703E-02	
2	5	7	.6497E-02	.5644E-02	-.1185E-01	
1	4	7	.6193E-02	.6118E-02	-.1267E-01	

STRESSES FOR BRICKH ELEMENT NO. 4 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
28	.11E+01	.21E+00	.89E+00	-.82E+04	-.78E+04	-.80E+04	-.13E+03	.12E+03	.11E+03	-.77E+04	-.79E+04	-.83E+04	.30E+03
				-.20E-01	.15E-01	.37E-03	-.21E-01	.18E-01	.18E-01	.20E-01	.25E-02	-.28E-01	.48E-01
29	.15E+01	.28E+00	.84E+00	.14E+04	.14E+04	.15E+04	-.26E+02	.76E+02	.42E+02	.15E+04	.14E+04	.13E+04	.10E+03
				.46E-02	-.46E-03	.62E-02	-.42E-02	.12E-01	.67E-02	.10E-01	.52E-02	-.53E-02	.16E-01
30	.13E+01	.50E+00	.84E+00	.15E+04	.17E+04	.16E+04	-.80E+02	-.36E+02	.97E+02	.18E+04	.16E+04	.14E+04	.16E+03
				-.61E-02	.83E-02	.10E-02	-.13E-01	-.57E-02	.15E-01	.13E-01	.16E-02	-.12E-01	.25E-01
31	.99E+00	.39E+00	.84E+00	.32E+04	.33E+04	.34E+04	-.14E+03	.14E+03	-.18E+02	.39E+04	.33E+04	.31E+04	.22E+03
				-.64E-02	.38E-02	.98E-02	-.23E-01	.22E-01	-.29E-02	.20E-01	.85E-03	-.15E-01	.35E-01
32	.14E+01	.24E+00	.12E+01	.16E+05	.16E+05	.16E+05	-.98E+02	.17E+03	.57E+02	.16E+05	.16E+05	.16E+05	.22E+03
				-.36E-02	.81E-02	.36E-02	-.16E-01	.27E-01	.89E-02	.20E-01	.27E-02	-.14E-01	.34E-01
33	.17E+01	.30E+00	.12E+01	-.14E+04	-.13E+04	-.14E+04	-.39E+02	.11E+03	.67E+02	-.12E+04	-.13E+04	-.15E+04	.14E+03
				-.41E-02	.31E-02	-.52E-02	-.61E-02	.17E-01	.11E-01	.06E-02	-.45E-03	-.14E-01	.23E-01
34	.14E+01	.49E+00	.12E+01	-.69E+04	-.68E+04	-.68E+04	-.43E+02	.93E+02	.97E+02	-.67E+04	-.68E+04	-.69E+04	.10E+03
				-.46E-02	-.15E-02	.42E-02	-.67E-02	.83E-02	.90E-02	.70E-02	.48E-03	-.94E-02	.16E-01
35	.12E+01	.34E+00	.12E+01	.47E+04	.46E+04	.49E+04	-.51E+02	.11E+03	-.24E+02	.50E+04	.47E+04	.46E+04	.20E+03
				-.33E-02	-.12E-01	.13E-01	-.89E-02	.17E-01	-.38E-02	.16E-01	-.28E-02	-.15E-01	.32E-01
36	.13E+01	.35E+00	.10E+01	.13E+04	.14E+04	.13E+04	-.76E+02	.11E+03	.72E+02	.15E+04	.14E+04	.12E+04	.18E+03
				-.56E-02	.32E-02	.16E-02	-.12E-01	.17E-01	.11E-01	.11E-01	.24E-02	-.14E-01	.25E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 5 MATERIAL = 1

I	J	K	U	V	W	H
3	1	3	.9539E-02	-.1042E-08	-.1530E-01	-.1437E+01
5	1	3	.6446E-02	.3616E-09	-.9979E-02	.1828E+01
5	3	3	.6298E-02	.1348E-02	-.9613E-02	.2491E+00
3	3	3	.9279E-02	.2137E-02	-.1511E-01	.9537E-01
3	1	5	.5956E-02	-.2135E-08	-.1171E-01	.2160E+00
5	1	5	.4497E-02	-.1097E-08	-.7208E-02	.7170E-01
5	3	5	.4781E-02	.8945E-03	-.7363E-02	-.5364E+00
3	3	5	.6668E-02	.1918E-02	-.1199E-01	.2179E+00
4	1	3	.7670E-02	-.6948E-09	-.1246E-01	
5	2	3	.6358E-02	.6653E-03	-.9734E-02	
4	3	3	.7479E-02	.1615E-02	-.1227E-01	
3	2	3	.9414E-02	.1106E-02	-.1518E-01	
3	1	4	.7517E-02	-.1936E-08	-.1355E-01	
5	1	4	.5356E-02	-.7236E-09	-.8521E-02	
5	3	4	.5461E-02	.1077E-02	-.8444E-02	
3	3	4	.7869E-02	.2431E-02	-.1300E-01	
4	1	5	.5010E-02	-.1885E-08	-.9225E-02	
5	2	5	.4607E-02	.3855E-03	-.7195E-02	
4	3	5	.4961E-02	.1790E-02	-.1029E-01	
3	2	5	.6626E-02	.9415E-03	-.1313E-01	

STRESSES FOR BRICKH ELEMENT NO. 5 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
37	.13E+01	0.	.46E+00	-.92E+04	-.98E+04	-.91E+04	-.60E+00	-.65E+00	.61E+02	-.90E+04	-.98E+04	-.93E+04	.14E+03
				-.12E-01	.87E-02	.19E-02	-.11E-03	-.10E-03	.96E-02	.87E-02	.34E-02	-.13E-01	.22E-01
38	.17E+01	0.	.46E+00	.11E+05	.12E+05	.12E+05	-.17E-01	.27E+01	.47E+02	.12E+05	.12E+05	.11E+05	.75E+02
				-.48E-02	.39E-02	.44E-02	-.28E-05	.43E-03	.75E-02	.57E-02	.38E-02	-.62E-02	.12E-01
39	.17E+01	.34E+00	.46E+00	.15E+04	.16E+04	.16E+04	-.15E+02	.46E+01	.58E+02	.16E+04	.16E+04	.15E+04	.77E+02
				-.44E-02	.40E-02	.34E-02	-.24E-02	.72E-03	.91E-02	.55E-02	.41E-02	-.66E-02	.12E-01
40	.13E+01	.26E+00	.46E+00	.47E+03	.69E+03	.71E+03	-.40E+02	.54E+02	.72E+02	.76E+03	.60E+03	.44E+03	.18E+03
				-.10E-01	.70E-02	.85E-02	-.76E-02	.85E-02	.11E-01	.12E-01	.68E-02	-.13E-01	.25E-01
41	.15E+01	0.	.85E+00	.13E+04	.15E+04	.14E+04	.42E+02	-.11E+03	.94E+02	.15E+04	.14E+04	.12E+04	.17E+03
				-.75E-02	.72E-02	-.51E-03	.67E-02	-.17E-01	.15E-01	.13E-01	.14E-02	-.15E-01	.27E-01
42	.18E+01	0.	.84E+00	.43E+03	.48E+03	.48E+03	.30E+01	.81E+00	.52E+02	.51E+03	.48E+03	.40E+03	.58E+02
				-.20E-02	.17E-02	.20E-02	.47E-03	.13E-03	.82E-02	.46E-02	.17E-02	-.45E-02	.92E-02
43	.18E+01	.35E+00	.84E+00	-.34E+04	-.34E+04	-.34E+04	-.46E+02	.38E+02	.10E+03	-.33E+04	-.34E+04	-.35E+04	.12E+03
				.24E-02	.11E-02	-.87E-03	-.72E-02	.60E-02	.17E-01	.93E-02	.29E-02	-.96E-02	.19E-01
44	.15E+01	.28E+00	.84E+00	.12E+04	.14E+04	.14E+04	-.32E+02	.64E+02	.55E+00	.15E+04	.13E+04	.12E+04	.13E+03
				-.11E-01	.46E-02	.56E-03	-.50E-02	.10E-01	.87E-04	.82E-02	-.26E-02	-.12E-01	.20E-01
45	.16E+01	.16E+00	.66E+00	.47E+03	.63E+03	.55E+03	-.22E+02	.13E+02	.75E+02	.64E+03	.59E+03	.42E+03	.11E+03
				-.71E-02	.62E-02	-.80E-03	-.35E-02	.20E-02	.12E-01	.65E-02	.28E-02	-.11E-01	.17E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 6 MATERIAL = 1

I	J	K	U	V	W	H
3	1	5	.5956E-02	-.2135E-08	-.1171E-01	.2160E+00
5	1	5	.4497E-02	-.1897E-08	-.7288E-02	.7178E+01
5	3	5	.4781E-02	.8945E-03	-.7363E-02	-.5364E+00
3	3	5	.6468E-02	.1518E-02	-.1195E-01	.2179E+00
3	1	7	.4214E-02	-.4505E-09	-.7780E-02	-.4643E+00
5	1	7	.3448E-02	.2910E-09	-.5014E-02	.1887E+00
5	3	7	.3895E-02	.7938E-03	-.5469E-02	.8604E+00
3	3	7	.4882E-02	.1813E-02	-.8925E-02	-.2887E+00
4	1	5	.5018E-02	-.1885E-08	-.9225E-02	
5	2	5	.4807E-02	.3855E-03	-.7195E-02	
4	3	5	.4961E-02	.1790E-02	-.1029E-01	
3	2	5	.6628E-02	.9415E-03	-.1313E-01	
3	1	6	.4855E-02	-.1640E-08	-.9790E-02	
5	1	6	.3861E-02	-.7589E-09	-.6038E-02	
5	3	6	.4259E-02	.8000E-03	-.6372E-02	
3	3	6	.5728E-02	.9891E-03	-.9982E-02	
4	1	7	.3717E-02	-.2622E-09	-.6185E-02	
5	2	7	.3619E-02	.2822E-03	-.5122E-02	
4	3	7	.4388E-02	.1138E-02	-.7157E-02	
3	2	7	.4474E-02	.8072E-03	-.8294E-02	

STRESSES FOR BRICKH ELEMENT NO. 6 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
46	.19E+01	0.	.89E+00	.13E+04	.19E+04	.14E+04	.42E+02	-.11E+03	.94E+02	.19E+04	.14E+04	.12E+04	.17E+03
				-.75E-02	.72E-02	-.51E-03	.67E-02	-.17E-01	.15E-01	.13E-01	.14E-02	-.15E-01	.27E-01
47	.19E+01	0.	.84E+00	.43E+03	.48E+03	.48E+03	.30E+01	.81E+00	.52E+02	.51E+03	.48E+03	.48E+03	.50E+02
				-.20E-02	.17E-02	.20E-02	.47E-03	.13E-03	.82E-02	.46E-02	.17E-02	-.45E-02	.92E-02
48	.19E+01	.35E+00	.84E+00	-.34E+04	-.34E+04	-.34E+04	-.46E+02	.38E+02	.18E+03	-.33E+04	-.34E+04	-.35E+04	.12E+03
				.24E-02	.11E-02	-.87E-03	-.72E-02	.60E-02	.17E-01	.93E-02	.29E-02	-.96E-02	.19E-01
49	.19E+01	.28E+00	.84E+00	.12E+04	.14E+04	.19E+04	-.31E+02	.71E+02	.28E+02	.18E+04	.14E+04	.12E+04	.17E+03
				-.11E-01	.46E-02	.11E-01	-.49E-02	.11E-01	.43E-02	.14E-01	.21E-02	-.12E-01	.26E-01
50	.19E+01	0.	.12E+01	-.30E+04	-.29E+04	-.30E+04	.91E+00	.27E+01	.12E+03	-.29E+04	-.29E+04	-.31E+04	.13E+03
				-.54E-02	.46E-02	-.26E-02	.14E-03	.43E-03	.20E-01	.59E-02	.46E-02	-.14E-01	.20E-01
51	.20E+01	0.	.12E+01	.67E+03	.70E+03	.71E+03	.33E+01	.24E+01	.39E+02	.73E+03	.70E+03	.65E+03	.43E+02
				-.14E-02	.82E-03	.16E-02	.52E-03	.38E-03	.61E-02	.35E-02	.79E-03	-.33E-02	.68E-02
52	.19E+01	.36E+00	.12E+01	.54E+04	.55E+04	.55E+04	-.11E+02	.20E+02	.79E+02	.56E+04	.55E+04	.54E+04	.83E+02
				-.38E-02	.30E-02	-.11E-03	-.17E-02	.32E-02	.12E-01	.47E-02	.28E-02	-.84E-02	.13E-01
53	.17E+01	.30E+00	.12E+01	-.14E+04	-.13E+04	-.14E+04	-.39E+02	.11E+03	.67E+02	-.12E+04	-.13E+04	-.15E+04	.14E+03
				-.41E-02	.31E-02	-.52E-02	-.61E-02	.17E-01	.11E-01	.86E-02	-.45E-03	-.14E-01	.23E-01
54	.17E+01	.17E+00	.10E+01	.15E+03	.25E+03	.25E+03	-.46E+01	-.27E+00	.93E+02	.30E+03	.25E+03	.94E+02	.18E+03
				-.51E-02	.30E-02	.25E-02	-.73E-03	-.42E-04	.15E-01	.70E-02	.30E-02	-.96E-02	.17E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 7 MATERIAL = 1

I	J	K	U	V	W	H
3	3	3	.9279E-02	.2137E-02	-.1511E-01	.9537E-01
9	3	3	.8298E-02	.1348E-02	-.9813E-02	.2491E+00
5	5	3	.6244E-02	.2767E-02	-.9745E-02	.1179E+01
3	5	3	.8976E-02	.3978E-02	-.1510E-01	-.1203E+01
3	3	5	.6466E-02	.1518E-02	-.1195E-01	.2179E+00
5	3	5	.4781E-02	.8945E-03	-.7363E-02	-.5364E+00
5	5	5	.5320E-02	.2283E-02	-.8244E-02	.2611E+00
3	5	5	.7101E-02	.3042E-02	-.1303E-01	.2926E+00
4	3	3	.7479E-02	.1615E-02	-.1227E-01	
5	4	3	.6268E-02	.2049E-02	-.9617E-02	
4	5	3	.7310E-02	.3116E-02	-.1241E-01	
3	4	3	.9133E-02	.309FE-02	-.1508E-01	
3	3	4	.7889E-02	.2431E-02	-.1300E-01	
5	3	4	.5461E-02	.1077E-02	-.8444E-02	
5	5	4	.5736E-02	.2437E-02	-.8978E-02	
3	5	4	.7924E-02	.3731E-02	-.1411E-01	
4	3	5	.4961E-02	.1790E-02	-.1029E-01	
5	4	5	.5019E-02	.1527E-02	-.7713E-02	
4	5	5	.6117E-02	.2670E-02	-.1074E-01	
3	4	5	.6712E-02	.2200E-02	-.1154E-01	

STRESSES FOR BRICKH ELEMENT NO. 7 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
55	.13E+01	.26E+00	.46E+00	.47E+03	.69E+03	.71E+03	-.40E+02	.54E+02	.72E+02	.76E+03	.60E+03	.44E+03	.16E+03
				-.10E-01	.70E-02	.85E-02	-.76E-02	.85E-02	.11E-01	.12E-01	.60E-02	-.13E-01	.25E-01
56	.17E+01	.34E+00	.46E+00	.15E+04	.16E+04	.16E+04	-.15E+02	.45E+01	.58E+02	.16E+04	.16E+04	.15E+04	.77E+02
				-.44E-02	.40E-02	.34E-02	-.24E-02	.72E-03	.91E-02	.56E-02	.41E-02	-.66E-02	.12E-01
57	.16E+01	.66E+00	.46E+00	.74E+04	.75E+04	.75E+04	-.22E+02	.14E+02	.65E+02	.75E+04	.75E+04	.74E+04	.80E+02
				-.36E-02	.37E-02	.30E-02	-.35E-02	.22E-02	.10E-01	.59E-02	.41E-02	-.68E-02	.13E-01
58	.12E+01	.51E+00	.46E+00	-.77E+04	-.76E+04	-.76E+04	-.79E+02	.30E+02	.51E+02	-.79E+04	-.76E+04	-.78E+04	.12E+03
				-.87E-02	.37E-02	.28E-02	-.13E-01	.47E-02	.81E-02	.65E-02	.40E-02	-.13E-01	.19E-01
59	.15E+01	.28E+00	.84E+00	.12E+04	.14E+04	.14E+04	.55E+01	.12E+02	.13E+02	.14E+04	.14E+04	.12E+04	.11E+03
				-.12E-01	.39E-02	.23E-03	.87E-03	.20E-02	.20E-02	.42E-02	.47E-04	-.13E-01	.17E-01
60	.18E+01	.35E+00	.84E+00	-.34E+04	-.34E+04	-.34E+04	-.46E+02	.38E+02	.10E+03	-.33E+04	-.34E+04	-.35E+04	.12E+03
				.24E-02	.11E-02	-.87E-03	-.72E-02	.60E-02	.17E-01	.93E-02	.29E-02	-.96E-02	.19E-01
61	.16E+01	.65E+00	.84E+00	.16E+04	.17E+04	.17E+04	-.18E+02	.31E+02	.76E+02	.17E+04	.17E+04	.15E+04	.94E+02
				-.41E-02	.42E-02	.19E-02	-.29E-02	.49E-02	.12E-01	.65E-02	.38E-02	-.83E-02	.15E-01
62	.13E+01	.56E+00	.84E+00	.15E+04	.17E+04	.16E+04	-.80E+02	-.36E+02	.97E+02	.18E+04	.16E+04	.14E+04	.16E+03
				-.61E-02	.83E-02	.10E-02	-.13E-01	-.57E-02	.15E-01	.13E-01	.16E-02	-.12E-01	.25E-01
63	.15E+01	.45E+00	.65E+00	.33E+03	.43E+03	.45E+03	-.30E+02	.15E+02	.52E+02	.47E+03	.44E+03	.30E+03	.83E+02
				-.62E-02	.15E-02	.30E-02	-.47E-02	.24E-02	.83E-02	.46E-02	.22E-02	-.85E-02	.13E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 8 MATERIAL = 1

I	J	K	U	V	W	H
3	3	5	.6466E-02	.1518E-02	-.1195E-01	.2179E+00
5	3	5	.4781E-02	.8945E-03	-.7383E-02	-.5364E+00
5	5	5	.5320E-02	.2283E-02	-.8244E-02	.2611E+00
3	5	5	.7101E-02	.3642E-02	-.1303E-01	.2526E+00
3	3	7	.4882E-02	.1813E-02	-.8925E-02	-.2087E+00
5	3	7	.3895E-02	.7938E-03	-.5469E-02	.8684E+00
5	5	7	.4763E-02	.2505E-02	-.6878E-02	.3203E+00
3	5	7	.6149E-02	.3939E-02	-.1062E-01	-.1080E+01
4	3	5	.4961E-02	.1790E-02	-.1029E-01	
5	4	5	.5019E-02	.1527E-02	-.7713E-02	
4	5	5	.6117E-02	.2670E-02	-.1074E-01	
3	4	5	.6712E-02	.2200E-02	-.1154E-01	
3	3	6	.5728E-02	.9091E-03	-.9982E-02	
5	3	6	.4259E-02	.8000E-03	-.6372E-02	
5	5	6	.4995E-02	.2306E-02	-.7544E-02	
3	5	6	.6508E-02	.3711E-02	-.1187E-01	
4	3	7	.4388E-02	.1138E-02	-.7157E-02	
5	4	7	.4276E-02	.1535E-02	-.6054E-02	
4	5	7	.5567E-02	.2893E-02	-.8959E-02	
3	4	7	.5448E-02	.2837E-02	-.9783E-02	

STRESSES FOR BRICKH ELEMENT NO. 8 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
64	.15E+01	.20E+00	.84E+00	.12E+04	.14E+04	.15E+04	.61E+01	.19E+02	.40E+02	.15E+04	.14E+04	.12E+04	.15E+03
				-.12E-01	.39E-02	.11E-01	.96E-03	.30E-02	.63E-02	.11E-01	.36E-02	-.13E-01	.24E-01
65	.15E+01	.39E+00	.84E+00	-.34E+04	-.34E+04	-.34E+04	-.46E+02	.38E+02	.18E+03	-.33E+04	-.34E+04	-.35E+04	.12E+03
				.24E-02	.11E-02	-.87E-03	-.72E-02	.60E-02	.17E-01	.93E-02	.29E-02	-.96E-02	.19E-01
66	.16E+01	.65E+00	.84E+00	.16E+04	.17E+04	.17E+04	-.18E+02	.31E+02	.76E+02	.17E+04	.17E+04	.15E+04	.94E+02
				-.41E-02	.42E-02	.19E-02	-.29E-02	.49E-02	.12E-01	.65E-02	.38E-02	-.83E-02	.15E-01
67	.13E+01	.50E+00	.84E+00	.15E+04	.17E+04	.16E+04	-.88E+02	-.35E+02	.97E+02	.19E+04	.16E+04	.14E+04	.10E+03
				-.61E-02	.63E-02	.10E-02	-.13E-01	-.57E-02	.15E-01	.13E-01	.16E-02	-.12E-01	.25E-01
68	.17E+01	.30E+00	.12E+01	-.14E+04	-.13E+04	-.14E+04	-.39E+02	.11E+03	.67E+02	-.12E+04	-.13E+04	-.15E+04	.14E+03
				-.41E-02	.31E-02	-.52E-02	-.61E-02	.17E-01	.11E-01	.86E-02	-.45E-03	-.14E-01	.23E-01
69	.19E+01	.36E+00	.12E+01	.54E+04	.55E+04	.55E+04	-.11E+02	.20E+02	.75E+02	.56E+04	.55E+04	.54E+04	.83E+02
				-.38E-02	.30E-02	-.11E-03	-.17E-02	.32E-02	.12E-01	.47E-02	.28E-02	-.84E-02	.13E-01
70	.17E+01	.84E+00	.12E+01	.20E+04	.21E+04	.20E+04	-.31E+02	.93E+02	.81E+02	.21E+04	.21E+04	.19E+04	.12E+03
				-.55E-02	.56E-02	.96E-03	-.48E-02	.84E-02	.13E-01	.82E-02	.34E-02	-.11E-01	.19E-01
71	.14E+01	.49E+00	.12E+01	-.69E+04	-.68E+04	-.68E+04	-.43E+02	.53E+02	.57E+02	-.67E+04	-.68E+04	-.69E+04	.10E+03
				-.46E-02	-.16E-02	.42E-02	-.67E-02	.83E-02	.90E-02	.70E-02	.48E-03	-.94E-02	.16E-01
72	.16E+01	.46E+00	.10E+01	.11E+02	.13E+03	.96E+02	-.17E+02	.19E+02	.71E+02	.14E+03	.13E+03	-.33E+02	.88E+02
				-.51E-02	.42E-02	.16E-02	-.26E-02	.31E-02	.11E-01	.53E-02	.39E-02	-.86E-02	.14E-01

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	1	5	17	.160E+05	1	3	5	32	.160E+05	3	1	5	36	.116E+05
SIGMA MIN	1	1	5	14	-.234E+05	3	1	3	37	-.926E+04	1	1	3	2	-.926E+04
TAU MAX	1	1	3	8	.303E+03	1	3	5	28	.303E+03	1	1	5	13	.303E+03
EPS MAX	1	1	3	1	.231E-01	1	1	3	4	.208E-01	1	3	3	19	.208E-01
EPS MIN	1	1	5	14	-.292E-01	1	1	5	13	-.276E-01	1	1	3	8	-.276E-01
GAMMA MAX	1	1	5	13	.478E-01	1	1	3	8	.478E-01	1	3	5	28	.478E-01

TIME IN POST = 1.116 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 16

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 15

COARSE GRID ELEMENT = 1

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	30101	.940E+00	0.	.463E+00	11	30302	.111E+01	.221E+00	.463E+00
2	30103	.132E+01	0.	.463E+00	12	30201	.935E+00	.924E-01	.463E+00
3	30303	.131E+01	.260E+00	.463E+00	13	40101	.106E+01	0.	.664E+00
4	30301	.921E+00	.181E+00	.463E+00	14	40103	.141E+01	0.	.660E+00
5	50101	.120E+01	0.	.854E+00	15	40303	.138E+01	.270E+00	.657E+00
6	50103	.151E+01	0.	.849E+00	16	40301	.102E+01	.198E+00	.660E+00
7	50303	.146E+01	.281E+00	.845E+00	17	50102	.136E+01	0.	.852E+00
8	50301	.113E+01	.213E+00	.849E+00	18	50203	.150E+01	.140E+00	.847E+00
9	30102	.113E+01	0.	.463E+00	19	50302	.129E+01	.247E+00	.847E+00
10	30203	.132E+01	.131E+00	.463E+00	20	50201	.117E+01	.116E+00	.852E+00

FINE GRID ELEMENT = 1

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	1	1	3	.940E+00	0.	.463E+00	11	2	3	3	.103E+01	.102E+00	.463E+00
2	3	1	3	.113E+01	0.	.463E+00	12	1	2	3	.938E+00	.464E-01	.463E+00
3	3	3	3	.113E+01	.112E+00	.463E+00	13	1	1	4	.999E+00	0.	.565E+00
4	1	3	3	.935E+00	.924E-01	.463E+00	14	3	1	4	.118E+01	0.	.564E+00
5	1	1	5	.106E+01	0.	.664E+00	15	3	3	4	.117E+01	.117E+00	.563E+00
6	3	1	5	.123E+01	0.	.662E+00	16	1	3	4	.988E+00	.983E-01	.564E+00
7	3	3	5	.122E+01	.122E+00	.660E+00	17	2	1	5	.115E+01	0.	.663E+00
8	1	3	5	.105E+01	.104E+00	.662E+00	18	3	2	5	.123E+01	.621E-01	.661E+00
9	2	1	3	.103E+01	0.	.463E+00	19	2	3	5	.113E+01	.113E+00	.661E+00
10	3	2	3	.113E+01	.560E-01	.463E+00	20	1	2	5	.105E+01	.534E-01	.663E+00

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	4	.1498E-01
2	4	.2855E-02

[illegible]	[illegible]	[illegible]
3	6	-.2172E-01
1	1	.1519E-01
2	1	.3898E-09
3	1	-.2204E-01
1	5	.1182E-01
2	5	-.6569E-09
3	5	-.2023E-01
1	8	.1178E-01
2	8	.2017E-02
3	8	-.1992E-01
1	12	.1509E-01
2	12	.1049E-02
3	12	-.2189E-01
1	13	.1342E-01
2	13	-.2183E-09
3	13	-.2118E-01
1	20	.1179E-01
2	20	.1026E-02
3	20	-.2008E-01
1	16	.1330E-01
2	16	.2032E-02
3	16	-.2088E-01
1	2	.1205E-01
2	2	-.6807E-09
3	2	-.1849E-01
1	6	.9402E-02
2	6	-.1608E-08
3	6	-.1668E-01
1	9	.1354E-01
2	9	-.2341E-09
3	9	-.2022E-01
1	14	.1065E-01
2	14	-.1230E-08
3	14	-.1781E-01
1	17	.1055E-01
2	17	-.1210E-08
3	17	-.1841E-01
1	3	.1188E-01
2	3	.1517E-02
3	3	-.1852E-01
1	11	.1336E-01
2	11	.1771E-02
3	11	-.1999E-01
1	10	.1197E-01
2	10	.7736E-03
3	10	-.1841E-01

FINE GRID ELEMENT = 2

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	1	1	5	.106E+01	0.	.664E+00	11	2	3	5	.113E+01	.113E+00	.661E+00
2	3	1	5	.123E+01	0.	.662E+00	12	1	2	5	.105E+01	.534E-01	.663E+00
3	3	3	5	.122E+01	.122E+00	.660E+00	13	1	1	6	.113E+01	0.	.760E+00
4	1	3	5	.105E+01	.104E+00	.662E+00	14	3	1	6	.129E+01	0.	.758E+00
5	1	1	7	.120E+01	0.	.854E+00	15	3	3	6	.128E+01	.127E+00	.756E+00
6	3	1	7	.136E+01	0.	.852E+00	16	1	3	6	.111E+01	.110E+00	.758E+00
7	3	3	7	.133E+01	.132E+00	.849E+00	17	2	1	7	.128E+01	0.	.953E+00
8	1	3	7	.117E+01	.116E+00	.852E+00	18	3	2	7	.135E+01	.681E-01	.950E+00
9	2	1	5	.115E+01	0.	.663E+00	19	2	3	7	.125E+01	.124E+00	.950F+00
10	3	2	5	.123E+01	.621E-01	.661E+00	20	1	2	7	.119E+01	.604E-01	.953E+00

POINT,CLAMP, AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	4	.1176E-01
2	4	.2017E-02
3	4	-.1992E-01
[illegible]	[illegible]	[illegible]

2	1	-.6569E-09
3	1	-.2023E-01
1	5	.9150E-02
2	5	-.1826E-08
3	5	-.1816E-01
1	8	.9158E-02
2	8	.2014E-02
3	8	-.1703E-01
1	12	.1179E-01
2	12	.1026E-02
3	12	-.2008E-01
1	13	.1840E-01
2	13	-.9262E-09
3	13	-.1921E-01
1	20	.9145E-02
2	20	.1022E-02
3	20	-.1797E-01
1	16	.1838E-01
2	16	.2011E-02
3	16	-.1891E-01
1	2	.9402E-02
2	2	-.1600E-08
3	2	-.1668E-01
1	6	.7336E-02
2	6	-.1849E-08
3	6	-.1467E-01
1	9	.1855E-01
2	9	-.1210E-08
3	9	-.1841E-01
1	14	.8297E-02
2	14	-.1814E-08
3	14	-.1570E-01
1	17	.8189E-02
2	17	-.1505E-08
3	17	-.1633E-01
1	7	.7228E-02
2	7	.1481E-02
3	7	-.1531E-01
1	18	.7326E-02
2	18	.7709E-03
3	18	-.1515E-01
1	19	.8021E-02
2	19	.1748E-02
3	19	-.1653E-01

FINE GRID ELEMENT = 3

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	1	3	3	.935E+00	.924E-01	.463E+00	11	2	5	3	.102E+01	.202E+00	.463E+00
2	3	3	3	.113E+01	.112E+00	.463E+00	12	1	4	3	.929E+00	.138E+00	.463E+00
3	3	5	3	.111E+01	.221E+00	.463E+00	13	1	3	4	.988E+00	.983E-01	.564E+00
4	1	5	3	.921E+00	.183E+00	.463E+00	14	3	3	4	.117E+01	.117E+00	.563E+00
5	1	3	5	.105E+01	.104E+00	.662E+00	15	3	5	4	.115E+01	.228E+00	.562E+00
6	3	3	5	.122E+01	.122E+00	.660E+00	16	1	5	4	.968E+00	.191E+00	.562E+00
7	3	5	5	.120E+01	.234E+00	.658E+00	17	2	3	5	.113E+01	.113E+00	.661E+00
8	1	5	5	.102E+01	.198E+00	.660E+00	18	3	4	5	.121E+01	.179E+00	.659E+00
9	2	3	3	.103E+01	.102E+00	.463E+00	19	2	5	5	.111E+01	.216E+00	.659E+00
10	3	4	3	.112E+01	.167E+00	.463E+00	20	1	4	5	.103E+01	.153E+00	.661E+00

POINT,CLAMP,AND SLOPE TYPE BC,

TYPE	NODE	VALUE
1	4	.1473E-01
2	4	.3947E-02
3	4	-.2186E-01
1	1	.1498E-01
2	1	.2056E-02

1	5	.1176E-01
2	5	.2017E-02
3	5	-.1992E-01
1	8	.1172E-01
2	8	.3892E-02
3	8	-.1959E-01
1	12	.1486E-01
2	12	.3022E-02
3	12	-.2155E-01
1	13	.1330E-01
2	13	.2032E-02
3	13	-.2008E-01
1	20	.1174E-01
2	20	.2973E-02
3	20	-.1976E-01
1	16	.1316E-01
2	16	.3911E-02
3	16	-.2051E-01
1	3	.1170E-01
2	3	.2914E-02
3	3	-.1815E-01
1	7	.9086E-02
2	7	.3101E-02
3	7	-.1620E-01
1	11	.1314E-01
2	11	.3399E-02
3	11	-.1973E-01
1	19	.1022E-01
2	19	.3482E-02
3	19	-.1787E-01
1	15	.1036E-01
2	15	.3079E-02
3	15	-.1712E-01
1	2	.1188E-01
2	2	.1517E-02
3	2	-.1832E-01
1	10	.1179E-01
2	10	.2231E-02
3	10	-.1823E-01
1	9	.1336E-01
2	9	.1771E-02
3	9	-.1999E-01

FINE GRID ELEMENT = 4

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	1	3	5	.105E+01	.104E+00	.682E+00	11	2	3	5	.111E+01	.216E+00	.699E+00
2	3	3	5	.122E+01	.122E+00	.660E+00	12	1	4	5	.103E+01	.153E+00	.661E+00
3	3	5	5	.126E+01	.234E+00	.658E+00	13	1	3	6	.111E+01	.118E+00	.758E+00
4	1	5	5	.102E+01	.198E+00	.660E+00	14	3	3	6	.128E+01	.127E+00	.756E+00
5	1	3	7	.117E+01	.116E+00	.852E+00	15	3	5	6	.124E+01	.241E+00	.754E+00
6	3	3	7	.133E+01	.132E+00	.849E+00	16	1	5	6	.107E+01	.206E+00	.755E+00
7	3	5	7	.129E+01	.247E+00	.847E+00	17	2	3	7	.129E+01	.124E+00	.850E+00
8	1	5	7	.113E+01	.213E+00	.849E+00	18	3	4	7	.132E+01	.192E+00	.848E+00
9	2	3	5	.113E+01	.113E+00	.661E+00	19	2	5	7	.121E+01	.230E+00	.848E+00
10	3	4	5	.121E+01	.179E+00	.659E+00	20	1	4	7	.115E+01	.167E+00	.850E+00

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	4	.1172E-01
2	4	.3892E-02
3	4	-.1959E-01
1	1	.1176E-01
2	1	.2017E-02
3	1	-.1992E-01
1	5	.9158E-02

3	5	-.1783E-01
1	8	.9240E-02
2	8	.3908E-02
3	8	-.1756E-01
1	12	.1174E-01
2	12	.2973E-02
3	12	-.1976E-01
1	13	.1038E-01
2	13	.2011E-02
3	13	-.1691E-01
1	20	.9190E-02
2	20	.2976E-02
3	20	-.1770E-01
1	16	.1041E-01
2	16	.3891E-02
3	16	-.1861E-01
1	3	.9086E-02
2	3	.3101E-02
3	3	-.1620E-01
1	7	.6721E-02
2	7	.2720E-02
3	7	-.1466E-01
1	11	.1022E-01
2	11	.3402E-02
3	11	-.1787E-01
1	19	.7698E-02
2	19	.3316E-02
3	19	-.1609E-01
1	15	.7872E-02
2	15	.2982E-02
3	15	-.1538E-01
1	6	.7226E-02
2	6	.1481E-02
3	6	-.1531E-01
1	10	.7010E-02
2	10	.2131E-02
3	10	-.1515E-01
1	17	.8021E-02
2	17	.1748E-02
3	17	-.1653E-01

FINE GRID ELEMENT = 5

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	5	1	3	.113E+01	0.	.463E+00	11	4	3	3	.122E+01	.121E+00	.463E+00
2	5	1	3	.132E+01	0.	.463E+00	12	3	2	3	.113E+01	.560E-01	.463E+00
3	5	3	3	.132E+01	.131E+00	.463E+00	13	3	1	4	.110E+01	0.	.564E+00
4	3	5	3	.113E+01	.112E+00	.463E+00	14	5	1	4	.135E+01	0.	.562E+00
5	3	1	5	.123E+01	0.	.662E+00	15	5	3	4	.136E+01	.135E+00	.562E+00
6	5	1	5	.141E+01	0.	.560E+00	16	3	3	4	.117E+01	.117E+00	.563E+00
7	5	3	5	.140E+01	.139E+00	.658E+00	17	4	1	5	.132E+01	0.	.661E+00
8	3	3	5	.122E+01	.122E+00	.660E+00	18	5	2	5	.141E+01	.708E-01	.659E+00
9	4	1	3	.122E+01	0.	.463E+00	19	4	3	5	.131E+01	.131E+00	.659E+00
10	5	2	3	.132E+01	.656E-01	.463E+00	20	3	2	5	.123E+01	.621E-01	.661E+00

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	2	.9539E-02
2	2	-.1042E-08
3	2	-.1537E-01
1	3	.9614E-02
2	3	.1106E-02
3	3	-.1518E-01
1	7	.7916E-02
2	7	.1325E-02
3	7	-.1391E-01

2	6	-.1936E-08
3	6	-.1355E-01
1	10	.9478E-02
2	10	.5621E-03
3	10	-.1524E-01
1	15	.8839E-02
2	15	.1291E-02
3	15	-.1440E-01
1	18	.7770E-02
2	18	.6988E-03
3	18	-.1389E-01
1	14	.8671E-02
2	14	-.1576E-08
3	14	-.1443E-01
1	1	.1205E-01
2	1	-.8887E-09
3	1	-.1049E-01
1	9	.9402E-02
2	5	-.1608E-08
3	5	-.1068E-01
1	9	.1071E-01
2	9	-.9981E-09
3	9	-.1685E-01
1	17	.8393E-02
2	17	-.1850E-08
3	17	-.1506E-01
1	13	.1065E-01
2	13	-.1230E-08
3	13	-.1761E-01
1	4	.1108E-01
2	4	.1517E-02
3	4	-.1032E-01
1	12	.1197E-01
2	12	.7736E-03
3	12	-.1041E-01
1	11	.1057E-01
2	11	.1296E-02
3	11	-.1672E-01

FINE GRID ELEMENT = 6

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	3	1	5	.123E+01	0.	.662E+00	11	4	3	5	.131E+01	.131E+00	.659E+00
2	5	1	5	.141E+01	0.	.660E+00	12	3	2	5	.123E+01	.621E-01	.661E+00
3	5	3	5	.140E+01	.139E+00	.658E+00	13	3	1	6	.129E+01	0.	.758E+00
4	3	3	5	.122E+01	.122E+00	.660E+00	14	5	1	6	.146E+01	0.	.755E+00
5	3	1	7	.130E+01	0.	.852E+00	15	5	3	6	.149E+01	.144E+00	.794E+00
6	5	1	7	.151E+01	0.	.849E+00	16	3	3	6	.128E+01	.127E+00	.756E+00
7	5	3	7	.150E+01	.148E+00	.847E+00	17	4	1	7	.143E+01	0.	.850E+00
8	3	3	7	.133E+01	.132E+00	.849E+00	18	5	2	7	.151E+01	.760E-01	.848E+00
9	4	1	5	.132E+01	0.	.661E+00	19	4	3	7	.142E+01	.140E+00	.848E+00
10	5	2	5	.141E+01	.708E-01	.659E+00	20	3	2	7	.135E+01	.681E-01	.850E+00

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	2	.7517E-02
2	2	-.1936E-08
3	2	-.1355E-01
1	3	.7910E-02
2	3	.1325E-02
3	3	-.1391E-01
1	7	.6628E-02
2	7	.9415E-03
3	7	-.1313E-01
1	6	.5956E-02
2	6	-.2135E-08

3	8	-.4474E-04
1	18	.7770E-02
2	18	.6988E-03
3	18	-.1389E-01
1	15	.7246E-02
2	15	.1209E-02
3	15	-.1346E-01
1	10	.6397E-02
2	10	.5164E-03
3	10	-.1274E-01
1	14	.6675E-02
2	14	-.2123E-08
3	14	-.1264E-01
1	1	.9402E-02
2	1	-.1608E-08
3	1	-.1668E-01
1	5	.7330E-02
2	5	-.1849E-08
3	5	-.1467E-01
1	9	.8393E-02
2	9	-.1850E-08
3	9	-.1506E-01
1	17	.6592E-02
2	17	-.2066E-08
3	17	-.1313E-01
1	13	.8297E-02
2	13	-.1814E-08
3	13	-.1576E-01
1	8	.7226E-02
2	8	.1481E-02
3	8	-.1531E-01
1	19	.6756E-02
2	19	.1212E-02
3	19	-.1418E-01
1	20	.7326E-02
2	20	.7709E-03
3	20	-.1515E-01

FINE GRID ELEMENT = 7

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	3	3	3	.113E+01	.112E+00	.463E+00	11	4	5	3	.121E+01	.240E+00	.463E+00
2	5	3	3	.132E+01	.131E+00	.463E+00	12	3	4	3	.112E+01	.167E+00	.463E+00
3	5	5	3	.131E+01	.260E+00	.463E+00	13	3	3	4	.117E+01	.117E+00	.563E+00
4	3	5	3	.111E+01	.221E+00	.463E+00	14	5	3	4	.136E+01	.135E+00	.562E+00
5	3	3	5	.122E+01	.122E+00	.660E+00	15	5	5	4	.134E+01	.265E+00	.561E+00
6	5	3	5	.140E+01	.139E+00	.656E+00	16	3	5	4	.115E+01	.228E+00	.562E+00
7	5	5	5	.138E+01	.270E+00	.657E+00	17	4	3	5	.131E+01	.131E+00	.659E+00
8	3	5	5	.120E+01	.234E+00	.658E+00	18	5	4	5	.139E+01	.206E+00	.658E+00
9	4	3	3	.122E+01	.121E+00	.463E+00	19	4	5	5	.129E+01	.252E+00	.658E+00
10	5	4	3	.131E+01	.195E+00	.463E+00	20	3	4	5	.121E+01	.179E+00	.659E+00

POINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	2	.9414E-02
2	2	.1106E-02
3	2	-.1518E-01
1	3	.9279E-02
2	3	.2137E-02
3	3	-.1511E-01
1	7	.7889E-02
2	7	.2431E-02
3	7	-.1300E-01
1	6	.7916E-02
2	6	.1825E-02
3	6	-.1391E-01
1	10	.9348E-02
2	10	.1671E-02

3	10	-.1514E-01
1	15	.8589E-02
2	15	.2435E-02
3	15	-.1392E-01
1	10	.7956E-02
2	10	.1905E-02
3	10	-.1361E-01
1	14	.8639E-02
2	14	.1291E-02
3	14	-.1448E-01
1	4	.1179E-01
2	4	.2914E-02
3	4	-.1815E-01
1	8	.9806E-02
2	8	.3101E-02
3	8	-.1620E-01
1	11	.1041E-01
2	11	.2494E-02
3	11	-.1661E-01
1	16	.1036E-01
2	16	.3079E-02
3	18	-.1712E-01
1	19	.8308E-02
2	19	.2751E-02
3	19	-.1457E-01
1	1	.1188E-01
2	1	.1517E-02
3	1	-.1832E-01
1	12	.1179E-01
2	12	.2231E-02
3	12	-.1823E-01
1	9	.1057E-01
2	9	.1296E-02
3	9	-.1672E-01

FINE GRID ELEMENT = 8

NODE	I	J	K	X-COORD	Y-COORD	Z-COORD	NODE	I	J	K	X-COORD	Y-COORD	Z-COORD
1	3	3	5	.122E+01	.122E+00	.660E+00	11	4	5	5	.129E+01	.252E+00	.658E+00
2	5	3	5	.140E+01	.139E+00	.658E+00	12	3	4	5	.121E+01	.179E+00	.659E+00
3	5	5	5	.138E+01	.270E+00	.697E+00	13	3	3	6	.120E+01	.127E+00	.798E+00
4	3	5	5	.120E+01	.234E+00	.658E+00	14	5	3	6	.145E+01	.144E+00	.756E+00
5	3	3	7	.133E+01	.132E+00	.849E+00	15	5	5	6	.142E+01	.276E+00	.752E+00
6	5	3	7	.150E+01	.148E+00	.847E+00	16	3	5	6	.124E+01	.241E+00	.754E+00
7	5	5	7	.146E+01	.281E+00	.845E+00	17	4	3	7	.142E+01	.140E+00	.848E+00
8	3	5	7	.129E+01	.247E+00	.847E+00	18	5	4	7	.148E+01	.216E+00	.846E+00
9	4	3	9	.131E+01	.131E+00	.899E+00	19	4	5	7	.139E+01	.204E+00	.848F+00
10	5	4	5	.139E+01	.206E+00	.658E+00	20	3	4	7	.132E+01	.192E+00	.848E+00

PCINT,CLAMP,AND SLOPE TYPE BC.

TYPE	NODE	VALUE
1	2	.7916E-02
2	2	.1325E-02
3	2	-.1391E-01
1	3	.7889E-02
2	3	.2431E-02
3	3	-.1308E-01
1	7	.6460E-02
2	7	.1910E-02
3	7	-.1195E-01
1	6	.6628E-02
2	6	.9415E-03
3	6	-.1313E-01
1	10	.7956E-02
2	10	.1905E-02
3	10	-.1361E-01

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 2       15        .2125E-02
 3       15       -.1234E-01
 1       18        .6649E-02
 2       18        .1275E-02
 3       18       -.1286E-01
 1       14        .7268E-02
 2       14        .1289E-02
 3       14       -.1346E-01
 1        4        .9886E-02
 2        4        .3101E-02
 3        4       -.1620E-01
 1        8        .6721E-02
 2        8        .2720E-02
 3        8       -.1466E-01
 1       11        .8388E-02
 2       11        .2791E-02
 3       11       -.1457E-01
 1       16        .7072E-02
 2       16        .2982E-02
 3       16       -.1538E-01
 1       19        .6388E-02
 2       19        .2121E-02
 3       19       -.1328E-01
 1        5        .7220E-02
 2        5        .1461E-02
 3        5       -.1531E-01
 1       20        .7018E-02
 2       20        .2131E-02
 3       20       -.1515E-01
 1       17        .6756E-02
 2       17        .1212E-02
 3       17       -.1418E-01

TIME IN REZONE      =       1.214 SECONDS

TIME IN FORMKF      =       3.772 SECONDS

TIME IN PREFRONT =     .308

TOTAL NUMBER OF D.O.F.S =   270

D.O.F. IN FRONT = 112

MAXIMUM ACTIVE STORAGE =  8966

TOTAL NICKNAME STORAGE =   224

BUFFER LENGTH =  18333

TIME IN FORWARD ELIMINATION =     7.580

NUMBER OF SECTORS(PRUS) =   201

TIME IN BACKSUBSTITUTION =     .643

TIME IN ZIPP        =       8.539 SECONDS
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BLOCK OPTION

BOUNDS

	MIN	MAX		MIN	MAX
X	-.1000E+21	.1000E+21	I	0	0
Y	-.1000E+21	.1000E+21	J	0	0
Z	-.1000E+21	.1000E+21	K	0	0

PRINT LEVEL = 4

STRESS POINTS FOR BRICK(DEGEN) ELEMENTS

POINT	S1	S2	S3
1	-1.000	-1.000	-1.000
2	1.000	-1.000	-1.000
3	1.000	1.000	-1.000
4	-1.000	1.000	-1.000
5	-1.000	-1.000	1.000
6	1.000	-1.000	1.000
7	1.000	1.000	1.000
8	-1.000	1.000	1.000
9	0.000	0.000	0.000

STRESS POINTS FOR PRISM ELEMENTS

POINT	S1	S2	S3	S4
1	1.000	0.000	0.000	-1.000
2	0.000	1.000	0.000	-1.000
3	0.000	0.000	1.000	-1.000
4	1.000	0.000	0.000	1.000
5	0.000	1.000	0.000	1.000
6	0.000	0.000	1.000	1.000
7	.333	.333	.333	0.000

STRESS POINTS FOR WEDGE ELEMENTS

POINT	S1	S2	S3
1	.050	0.000	-1.000
2	1.000	0.000	-1.000
3	1.000	1.000	-1.000
4	.050	0.000	1.000
5	1.000	0.000	1.000
6	1.000	1.000	1.000
7	.667	.500	0.000

STRESS POINTS FOR TETRA ELEMENTS

POINT	S1	S2	S3	S4
1	1.000	0.000	0.000	0.000
2	0.000	1.000	0.000	0.000
3	0.000	0.000	1.000	0.000
4	0.000	0.000	0.000	1.000
5	.250	.250	.250	.250

DISPLACEMENTS FOR BRICKH ELEMENT NO. 1 MATERIAL = 1

I	J	K	U	V	W	H
1	1	3	.1519E-01	.3898E-09	-.2204E-01	.7415E+00
3	1	3	.1209E-01	-.6807E-09	-.1849E-01	-.1296E+00
3	3	3	.1188E-01	.1517E-02	-.1832E-01	.8450E+00
1	3	3	.1498E-01	.2856E-02	-.2172E-01	.7493E-01
1	1	5	.1182E-01	-.6569E-09	-.2023E-01	.8963E+00
3	1	5	.9402E-02	-.1608E-08	-.1668E-01	.3730E+00
3	3	5	.9286E-02	.1424E-02	-.1654E-01	.2750E+00
1	3	5	.1176E-01	.2017E-02	-.1992E-01	.8701E-01
2	1	3	.1354E-01	-.2341E-09	-.2022E-01	
3	2	3	.1197E-01	.7736E-03	-.1841E-01	
2	3	3	.1336E-01	.1771E-02	-.1999E-01	
1	2	3	.1509E-01	.1049E-02	-.2189E-01	
1	1	4	.1342E-01	-.2183E-09	-.2118E-01	
3	1	4	.1065E-01	-.1238E-08	-.1761E-01	
3	3	4	.1039E-01	.1735E-02	-.1723E-01	
1	3	4	.1330E-01	.2832E-02	-.2086E-01	
2	1	5	.1055E-01	-.1210E-08	-.1841E-01	
3	2	5	.9630E-02	.7886E-03	-.1695E-01	
2	3	5	.1027E-01	.1773E-02	-.1826E-01	
1	2	5	.1179E-01	.1026E-02	-.2000E-01	

STRESSES FOR BRICKH ELEMENT NO. 1 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
1	.94E+00	0.	.46E+00	.45E+04	.50E+04	.47E+04	-.14E+02	.21E+02	.74E+02	.50E+04	.47E+04	.44E+04	.20E+03
				-.18E-01	.23E-01	-.26E-02	-.22E-02	.34E-02	.12E-01	.23E-01	-.76E-03	-.20E-01	.43E-01
2	.11E+01	0.	.46E+00	-.98E+03	-.62E+03	-.88E+03	-.49E+01	.56E+01	.67E+02	-.62E+03	-.77E+03	-.18E+04	.19E+03
				-.15E-01	.14E-01	-.13E-03	-.77E-03	.88E-03	.11E-01	.14E-01	.16E-02	-.17E-01	.31E-01
3	.11E+01	.11E+00	.46E+00	.52E+04	.55E+04	.54E+04	-.48E+02	.54E+02	.41E+02	.59E+04	.54E+04	.52E+04	.19E+03
				-.14E-01	.13E-01	.53E-02	-.63E-02	.85E-02	.64E-02	.15E-01	.44E-02	-.15E-01	.30E-01
4	.93E+00	.92E-01	.46E+00	.25E+03	.74E+03	.46E+03	-.66E+02	.42E+02	.61E+02	.79E+03	.47E+03	.23E+03	.28E+03
				-.17E-01	.21E-01	-.12E-02	-.95E-02	.67E-02	.96E-02	.22E-01	-.53E-04	-.19E-01	.41E-01
5	.11E+01	0.	.66E+00	.59E+04	.59E+04	.56E+04	-.12E+02	.27E+02	.11E+03	.59E+04	.57E+04	.54E+04	.25E+03
				-.16E-01	.19E-01	-.44E-02	-.19E-02	.43E-02	.17E-01	.19E-01	-.64E-04	-.20E-01	.39E-01
6	.12E+01	0.	.66E+00	.22E+04	.25E+04	.23E+04	.49E+02	-.58E+02	.92E+02	.25E+04	.24E+04	.21E+04	.20E+03
				-.12E-01	.14E-01	-.15E-02	.77E-02	-.91E-02	.14E-01	.15E-01	.17E-02	-.17E-01	.32E-01
7	.12E+01	.12E+00	.66E+00	.16E+04	.18E+04	.17E+04	-.11E+03	.76E+02	.84E+02	.19E+04	.17E+04	.15E+04	.19E+03
				-.71E-02	.86E-02	-.56E-02	-.17E-01	.12E-01	.13E-01	.13E-01	.16E-03	-.17E-01	.30E-01
8	.10E+01	.10E+00	.66E+00	.31E+03	.79E+03	.53E+03	-.55E+02	.52E+02	.94E+02	.80E+03	.56E+03	.26E+03	.27E+03
				-.19E-01	.19E-01	-.13E-02	-.87E-02	.82E-02	.15E-01	.20E-01	.11E-02	-.23E-01	.42E-01
9	.11E+01	.54E-01	.56E+00	.23E+04	.27E+04	.25E+04	-.34E+02	.29E+02	.76E+02	.27E+04	.25E+04	.23E+04	.22E+03
				-.15E-01	.18E-01	-.22E-02	-.53E-02	.46E-02	.12E-01	.18E-01	.17E-03	-.17E-01	.35E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 2 MATERIAL = 1

I	J	K	U	V	W	M
1	1	5	.1182E-01	-.6569E-09	-.2823E-01	.8960E+00
3	1	5	.9402E-02	-.1088E-08	-.1888E-01	.3730E+00
3	3	5	.9266E-02	.1424E-02	-.1654E-01	.2750E+00
1	3	5	.1170E-01	.2017E-02	-.1992E-01	.8701E-01
1	1	7	.9158E-02	-.1826E-08	-.1818E-01	-.1895E+01
3	1	7	.7338E-02	-.1049E-08	-.1487E-01	.6903E-01
3	3	7	.7228E-02	.1401E-02	-.1531E-01	.5537E+00
1	3	7	.9190E-02	.2014E-02	-.1783E-01	.1233E+01
2	1	5	.1055E-01	-.1210E-08	-.1841E-01	
3	2	5	.9630E-02	.7008E-03	-.1899E-01	
2	3	5	.1027E-01	.1773E-02	-.1826E-01	
1	2	5	.1179E-01	.1028E-02	-.2000E-01	
1	1	6	.1048E-01	-.9262E-09	-.1921E-01	
3	1	6	.8297E-02	-.1014E-08	-.1970E-01	
3	3	6	.8275E-02	.1590E-02	-.1587E-01	
1	3	6	.1030E-01	.2011E-02	-.1891E-01	
2	1	7	.8189E-02	-.1905E-08	-.1633E-01	
3	2	7	.7326E-02	.7709E-03	-.1919E-01	
2	3	7	.8021E-02	.1748E-02	-.1683E-01	
1	2	7	.9149E-02	.1822E-02	-.1797E-01	

STRESSES FOR BRICKH ELEMENT NO. 2 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
10	.11E+01	0.	.66E+00	.99E+04	.99E+04	.98E+04	-.12E+02	.27E+02	.11E+03	.99E+04	.97E+04	.94E+04	.29E+03
				-.16E-01	.19E-01	-.44E-02	-.19E-02	.43E-02	.17E-01	.19E-01	-.64E-04	-.20E-01	.39E-01
11	.12E+01	0.	.66E+00	.22E+04	.25E+04	.23E+04	.49E+02	-.58E+02	.92E+02	.25E+04	.20E+04	.21E+04	.20E+03
				-.12E-01	.14E-01	-.15E-02	.77E-02	-.91E-02	.14E-01	.15E-01	.17E-02	-.17E-01	.32E-01
12	.12E+01	.12E+00	.66E+00	.16E+04	.19E+04	.17E+04	-.11E+03	.13E+03	.79E+02	.19E+04	.10E+04	.15E+04	.21E+03
				-.72E-02	.88E-02	-.38E-02	-.17E-01	.20E-01	.12E-01	.16E-01	.97E-03	-.10E-01	.34E-01
13	.10E+01	.10E+00	.66E+00	.31E+03	.79E+03	.93E+03	-.99E+02	.32E+02	.94E+02	.88E+03	.20E+03	.27E+03	
				-.19E-01	.19E-01	-.13E-02	-.67E-02	.82E-02	.15E-01	.20E-01	.11E-02	-.23E-01	.42E-01
14	.12E+01	0.	.65E+00	-.71E+04	-.67E+04	-.70E+04	-.14E+02	.35E+02	.14E+03	-.67E+04	-.69E+04	-.72E+04	.26E+03
				-.13E-01	.17E-01	-.67E-02	-.22E-02	.55E-02	.21E-01	.17E-01	.12E-02	-.21E-01	.38E-01
15	.14E+01	0.	.65E+00	.43E+03	.71E+03	.52E+03	-.28E+01	-.47E+02	.12E+03	.72E+03	.59E+03	.35E+03	.19E+03
				-.10E-01	.11E-01	-.31E-02	-.44E-03	-.74E-02	.10E-01	.13E-01	.20E-02	-.17E-01	.29E-01
16	.13E+01	.13E+00	.65E+00	.34E+04	.36E+04	.39E+04	-.98E+02	.28E+02	.49E+02	.36E+04	.39E+04	.34E+04	.14E+03
				-.75E-02	.99E-02	-.48E-02	-.89E-02	.48E-02	.77E-02	.11E-01	-.16E-02	-.11E-01	.22E-01
17	.12E+01	.12E+00	.65E+00	.76E+04	.80E+04	.78E+04	-.62E+02	.66E+02	.99E+02	.80E+04	.78E+04	.75E+04	.24E+03
				-.16E-01	.17E-01	-.26E-03	-.97E-02	.10E-01	.16E-01	.18E-01	.24E-02	-.20E-01	.39E-01
18	.12E+01	.61E-01	.76E+00	.19E+04	.21E+04	.19E+04	-.33E+02	.22E+02	.82E+02	.21E+04	.19E+04	.17E+04	.19E+03
				-.11E-01	.15E-01	-.15E-02	-.52E-02	.34E-02	.13E-01	.15E-01	.16E-02	-.15E-01	.30E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 3 MATERIAL = 1

I	J	K	U	V	W	H
1	3	3	.1498E-01	.2056E-02	-.2172E-01	.7493E-01
3	3	3	.1188E-01	.1917E-02	-.1832E-01	.8490E+00
3	5	3	.1178E-01	.2914E-02	-.1815E-01	-.9134E+00
1	5	3	.1473E-01	.3947E-02	-.2136E-01	.1018E+01
1	3	5	.1176E-01	.2017E-02	-.1992E-01	.8701E-01
3	3	5	.9286E-02	.1424E-02	-.1654E-01	.2750E+00
3	5	5	.9086E-02	.3101E-02	-.1628E-01	.5808E+00
1	5	5	.1172E-01	.3892E-02	-.1999E-01	.1000E+01
2	3	3	.1336E-01	.1771E-02	-.1999E-01	
3	4	3	.1179E-01	.2231E-02	-.1823E-01	
2	5	3	.1314E-01	.3399E-02	-.1973E-01	
1	4	3	.1486E-01	.3022E-02	-.2155E-01	
1	3	4	.1330E-01	.2032E-02	-.2086E-01	
3	3	4	.1039E-01	.1735E-02	-.1723E-01	
3	5	4	.1036E-01	.3079E-02	-.1712E-01	
1	5	4	.1316E-01	.3911E-02	-.2051E-01	
2	3	5	.1027E-01	.1773E-02	-.1826E-01	
3	4	5	.9560E-02	.2380E-02	-.1669E-01	
2	5	5	.1022E-01	.3482E-02	-.1787E-01	
1	4	5	.1174E-01	.2973E-02	-.1976E-01	

STRESSES FOR BRICKH ELEMENT NO. 3 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
19	.93E+00	.92E-01	.46E+00	.25E+03 -.17E-01	.74E+03 .21E-01	.46E+03 -.12E-02	-.60E+02 -.95E-02	.42E+02 .67E-02	.61E+02 .96E-02	.79E+03 .22E-01	.47E+03 -.53E-04	.23E+03 -.19E-01	.28E+03 .41E-01
20	.11E+01	.11E+00	.46E+00	.52E+04 -.14E-01	.55E+04 .13E-01	.54E+04 .53E-02	-.48E+02 -.63E-02	.54E+02 .85E-02	.41E+02 .64E-02	.55E+04 .15E-01	.54E+04 .44E-02	.52E+04 -.15E-01	.19E+03 .30E-01
21	.11E+01	.22E+00	.46E+00	-.59E+04 -.13E-01	-.56E+04 .11E-01	-.57E+04 .46E-02	-.71E+02 -.11E-01	.55E+02 .87E-02	.45E+02 .71E-02	-.56E+04 .14E-01	-.57E+04 .41E-02	-.60E+04 -.16E-01	.19E+03 .29E-01
22	.92E+00	.10E+00	.46E+00	.62E+04 -.16E-01	.67E+04 .10E-01	.64E+04 .53E-03	-.10E+03 -.16E-01	.63E+02 .99E-02	.45E+02 .72E-02	.67E+04 .21E-01	.64E+04 .78E-03	.62E+04 -.19E-01	.29E+03 .48E-01
23	.10E+01	.10E+00	.66E+00	.31E+03 -.19E-01	.79E+03 .19E-01	.53E+03 -.13E-02	-.55E+02 -.87E-02	.52E+02 .82E-02	.94E+02 .15E-01	.80E+03 .20E-01	.56E+03 .11E-02	.26E+03 -.23E-01	.27E+03 .42E-01
24	.12E+01	.12E+00	.66E+00	.16E+04 -.93E-02	.20E+04 .17E-01	.17E+04 -.56E-02	.21E+02 .32E-02	-.53E+02 -.83E-02	.96E+02 .15E-01	.20E+04 .18E-01	.17E+04 .90E-04	.15E+04 -.16E-01	.21E+03 .34E-01
25	.12E+01	.23E+00	.66E+00	.36E+04 -.71E-02	.38E+04 .94E-02	.37E+04 .93E-03	-.15E+03 -.24E-01	.13E+03 .21E-01	.39E+02 .62E-02	.39E+04 .19E-01	.37E+04 .88E-03	.35E+04 -.17E-01	.23E+03 .37E-01
26	.10E+01	.20E+00	.66E+00	.66E+04 -.17E-01	.71E+04 .17E-01	.68E+04 -.48E-03	-.97E+02 -.15E-01	.85E+02 .13E-01	.84E+02 .13E-01	.71E+04 .20E-01	.68E+04 .11E-02	.66E+04 -.22E-01	.27E+03 .42E-01
27	.11E+01	.16E+00	.56E+00	.22E+04 -.14E-01	.26E+04 .14E-01	.24E+04 -.63E-03	-.52E+02 -.82E-02	.49E+02 .77E-02	.64E+02 .10E-01	.26E+04 .16E-01	.24E+04 .69E-03	.22E+04 -.16E-01	.20E+03 .32E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 4 MATERIAL = 1

I	J	K	U	V	W	H
1	3	5	.1176E-01	.2017E-02	-.1992E-01	.8701E-01
3	3	5	.9286E-02	.1424E-02	-.1654E-01	.2790E+00
3	5	5	.9086E-02	.3101E-02	-.1620E-01	.5808E+00
1	5	5	.1172E-01	.3892E-02	-.1999E-01	.1008E+01
1	3	7	.9158E-02	.2014E-02	-.1703E-01	.1233E+01
3	3	7	.7226E-02	.1401E-02	-.1531E-01	.9937E+00
3	5	7	.6721E-02	.2726E-02	-.1466E-01	.2109E-01
1	5	7	.9240E-02	.3988E-02	-.1796E-01	-.2970E+01
2	3	5	.1027E-01	.1773E-02	-.1826E-01	
3	4	5	.9568E-02	.2388E-02	-.1669E-01	
2	5	5	.1022E-01	.3482E-02	-.1787E-01	
1	4	5	.1174E-01	.2973E-02	-.1976E-01	
1	3	6	.1038E-01	.2011E-02	-.1891E-01	
3	3	6	.8279E-02	.1990E-02	-.1587E-01	
3	5	6	.7872E-02	.2982E-02	-.1538E-01	
1	5	6	.1041E-01	.3891E-02	-.1861E-01	
2	3	7	.8021E-02	.1748E-02	-.1653E-01	
3	4	7	.7818E-02	.2131E-02	-.1519E-01	
2	5	7	.7698E-02	.3316E-02	-.1609E-01	
1	4	7	.9198E-02	.2978E-02	-.1776E-01	

STRESSES FOR BRICKH ELEMENT NO. 4 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
28	.10E+01	.10E+00	.66E+00	.31E+03	.79E+03	.93E+03	-.99E+02	.92E+02	.94E+02	.00E+03	.96E+03	.26E+03	.27E+03
				-.19E-01	.19E-01	-.13E-02	-.87E-02	.82E-02	.15E-01	.20E-01	.11E-02	-.23E-01	.42E-01
29	.12E+01	.12E+00	.66E+00	.16E+04	.20E+04	.17E+04	.21E+02	-.15E+00	.92E+02	.20E+04	.10E+04	.16E+04	.20E+03
				-.93E-02	.17E-01	-.31E-02	.33E-02	-.23E-04	.14E-01	.18E-01	.17E-02	-.14E-01	.32E-01
30	.12E+01	.23E+00	.66E+00	.36E+04	.38E+04	.37E+04	-.15E+03	.13E+03	.39E+02	.39E+04	.37E+04	.35E+04	.23E+03
				-.71E-02	.94E-02	.93E-03	-.24E-01	.21E-01	.62E-02	.19E-01	.80E-03	-.17E-01	.37E-01
31	.10E+01	.20E+00	.66E+00	.68E+04	.71E+04	.68E+04	-.97E+02	.99E+02	.84E+02	.71E+04	.68E+04	.66E+04	.27E+03
				-.17E-01	.17E-01	-.48E-03	-.15E-01	.13E-01	.13E-01	.20E-01	.11E-02	-.22E-01	.42E-01
32	.12E+01	.12E+00	.65E+00	.76E+04	.80E+04	.78E+04	-.62E+02	.66E+02	.99E+02	.80E+04	.78E+04	.75E+04	.24E+03
				-.16E-01	.17E-01	-.26E-03	-.97E-02	.10E-01	.16E-01	.18E-01	.24E-02	-.20E-01	.39E-01
33	.13E+01	.13E+00	.65E+00	.34E+04	.36E+04	.35E+04	-.56E+02	.25E+02	.49E+02	.36E+04	.35E+04	.34E+04	.14E+03
				-.75E-02	.99E-02	-.40E-02	-.89E-02	.40E-02	.77E-02	.11E-01	-.16E-02	-.11E-01	.22E-01
34	.13E+01	.29E+00	.89E+00	.99E+02	.22E+03	.12E+03	-.12E+03	.12E+03	.39E+02	.33E+03	.12E+03	-.96E+02	.19E+03
				-.66E-02	.64E-02	-.15E-02	-.10E-01	.19E-01	.56E-02	.15E-01	-.11E-02	-.15E-01	.30E-01
35	.11E+01	.21E+00	.85E+00	-.13E+05	-.13E+05	-.13E+05	-.13E+03	.12E+03	.11E+03	-.13E+05	-.13E+05	-.13E+05	.39E+03
				-.20E-01	.15E-01	.37E-03	-.21E-01	.18E-01	.18E-01	.20E-01	.25E-02	-.20E-01	.48E-01
36	.12E+01	.17E+00	.76E+00	.12E+04	.16E+04	.14E+04	-.74E+02	.68E+02	.60E+02	.16E+04	.14E+04	.12E+04	.28E+03
				-.12E-01	.14E-01	-.28E-03	-.12E-01	.11E-01	.95E-02	.16E-01	.87E-03	-.15E-01	.31E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 5 MATERIAL = 1

I	J	K	U	V	W	H
1	1	1	.1265E-01	-.6807E-09	-.1849E-01	-.1256E+00
5	1	1	.9939E-02	-.1042E-08	-.1930E-01	-.9894E+00
5	3	1	.9414E-02	.1108E-02	-.1518E-01	-.5150E-01
1	3	1	.1188E-01	.1517E-02	-.1832E-01	.8450E+00
1	1	5	.9422E-02	-.1698E-08	-.1668E-01	.3730E+00
5	1	5	.7517E-02	-.1936E-08	-.1356E-01	.1132E+01
5	3	5	.7916E-02	.1325E-02	-.1391E-01	.3054E+00
1	3	5	.9288E-02	.1424E-02	-.1654E-01	.2790E+00
4	1	1	.1071E-01	-.9501E-09	-.1685E-01	
5	2	1	.9478E-02	.5621E-03	-.1524E-01	
4	3	1	.1057E-01	.1296E-02	-.1672E-01	
1	2	1	.1197E-01	.7736E-03	-.1841E-01	
1	1	4	.1065E-01	-.1230E-08	-.1761E-01	
5	1	4	.8471E-02	-.1576E-08	-.1443E-01	
5	3	4	.8639E-02	.1291E-02	-.1448E-01	
1	3	4	.1039E-01	.1735E-02	-.1723E-01	
4	1	5	.8393E-02	-.1850E-08	-.1506E-01	
5	2	5	.7778E-02	.6900E-03	-.1389E-01	
4	3	5	.8442E-02	.1691E-02	-.1520E-01	
1	2	5	.9630E-02	.7986E-03	-.1695E-01	

STRESSES FOR BRICKH ELEMENT NO. 5 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
37	.11E+01	0.	.41E+00	-.98E+03	-.62E+03	-.66E+03	-.49E+01	.56E+01	.67E+02	-.62E+03	-.77E+03	-.10E+04	.19E+03
				-.15E-01	.14E-01	-.13E-03	-.77E-03	.88E-03	.11E-01	.14E-01	.16E-02	-.17E-01	.31E-01
38	.13E+01	0.	.46E+00	-.39E+04	-.36E+04	-.37E+04	-.68E+00	-.65E+00	.61E+02	-.36E+04	-.37E+04	-.39E+04	.14E+03
				-.12E-01	.87E-02	.19E-02	-.11E-03	-.10E-03	.96E-02	.87E-02	.34E-02	-.13E-01	.22E-01
39	.13E+01	.13E+00	.46E+00	-.47E+03	-.22E+03	-.30E+03	-.26E+02	.29E+02	.74E+02	-.21E+03	-.28E+03	-.50E+03	.14E+03
				-.11E-01	.81E-02	.17E-02	-.41E-02	.47E-02	.12E-01	.89E-02	.36E-02	-.14E-01	.23E-01
40	.11E+01	.11E+00	.46E+00	.52E+04	.55E+04	.54E+04	-.40E+02	.54E+02	.41E+02	.59E+04	.54E+04	.92E+04	.19E+03
				-.14E-01	.13E-01	.53E-02	-.63E-02	.85E-02	.64E-02	.15E-01	.44E-02	-.15E-01	.30E-01
41	.12E+01	0.	.66E+00	.22E+04	.25E+04	.23E+04	.49E+02	-.50E+02	.92E+02	.25E+04	.24E+04	.21E+04	.20E+03
				-.12E-01	.14E-01	-.15E-02	.77E-02	-.91E-02	.14E-01	.15E-01	.17E-02	-.17E-01	.32E-01
42	.14E+01	0.	.66E+00	.70E+04	.73E+04	.72E+04	.28E+02	-.46E+02	.78E+02	.73E+04	.72E+04	.70E+04	.15E+03
				-.94E-02	.10E-01	.71E-03	.43E-02	-.72E-02	.12E-01	.11E-01	.38E-02	-.13E-01	.24E-01
43	.14E+01	.14E+00	.66E+00	.19E+04	.20E+04	.19E+04	-.40E+02	.43E+02	.59E+02	.21E+04	.20E+04	.18E+04	.12E+03
				-.43E-02	.80E-02	-.12E-02	-.76E-02	.68E-02	.86E-02	.96E-02	.18E-02	-.89E-02	.18E-01
44	.12E+01	.12E+00	.66E+00	.16E+04	.19E+04	.17E+04	-.44E+02	.35E+02	.67E+02	.19E+04	.17E+04	.16E+04	.16E+03
				-.10E-01	.10E-01	-.33E-02	-.69E-02	.55E-02	.11E-01	.11E-01	-.46E-03	-.14E-01	.25E-01
45	.13E+01	.64E-01	.56E+00	.16E+04	.19E+04	.17E+04	-.28E+02	.22E+02	.73E+02	.19E+04	.17E+04	.15E+04	.17E+03
				-.11E-01	.13E-01	-.84E-03	-.32E-02	.35E-02	.12E-01	.13E-01	.16E-02	-.14E-01	.27E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 6 MATERIAL = 1

I	J	K	U	V	W	H
3	1	5	.9402E-02	-.1608E-08	-.1668E-01	.3738E+00
5	1	5	.7517E-02	-.1936E-08	-.1355E-01	.1132E+01
5	3	5	.7916E-02	.1325E-02	-.1391E-01	.3854E+00
3	3	5	.9286E-02	.1424E-02	-.1694E-01	.2790E+00
3	1	7	.7336E-02	-.1849E-08	-.1467E-01	.8903E-01
5	1	7	.5956E-02	-.2135E-08	-.1171E-01	-.1031E+00
5	3	7	.6628E-02	.9415E-03	-.1313E-01	.1408E+00
3	3	7	.7220E-02	.1481E-02	-.1531E-01	.9937E+00
4	1	5	.8393E-02	-.1850E-08	-.1586E-01	
5	2	5	.7778E-02	.6900E-03	-.1389E-01	
4	3	5	.8442E-02	.1691E-02	-.1520E-01	
3	2	5	.9630E-02	.7886E-03	-.1695E-01	
3	1	6	.8297E-02	-.1814E-08	-.1570E-01	
5	1	6	.6879E-02	-.2123E-08	-.1284E-01	
5	3	6	.7246E-02	.1209E-02	-.1346E-01	
3	3	6	.8279E-02	.1550E-02	-.1587E-01	
4	1	7	.6592E-02	-.2068E-08	-.1313E-01	
5	2	7	.6397E-02	.5164E-03	-.1274E-01	
4	3	7	.6756E-02	.1212E-02	-.1418E-01	
3	2	7	.7328E-02	.7709E-03	-.1919E-01	

STRESSES FOR BRICKH ELEMENT NO. 6 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
46	.12E+01	0.	.66E+00	.22E+04	.29E+04	.23E+04	.69E+02	-.58E+02	.92E+02	.29E+04	.24E+04	.21E+04	.28E+03
				-.12E-01	.14E-01	-.15E-02	.77E-02	-.91E-02	.14E-01	.15E-01	.17E-02	-.17E-01	.32E-01
47	.14E+01	0.	.66E+00	.70E+04	.73E+04	.72E+04	.28E+02	-.46E+02	.78E+02	.73E+04	.72E+04	.70E+04	.19E+03
				-.94E-02	.10E-01	.71E-03	.43E-02	-.72E-02	.12E-01	.11E-01	.38E-02	-.13E-01	.24E-01
48	.14E+01	.14E+00	.66E+00	.19E+04	.20E+04	.19E+04	-.48E+02	.43E+02	.55E+02	.21E+04	.20E+04	.18E+04	.12E+03
				-.43E-02	.80E-02	-.12E-02	-.76E-02	.60E-02	.86E-02	.96E-02	.18E-02	-.89E-02	.18E-01
49	.12E+01	.12E+00	.66E+00	.16E+04	.19E+04	.17E+04	-.44E+02	.87E+02	.82E+02	.19E+04	.17E+04	.16E+04	.17E+03
				-.10E-01	.10E-01	-.69E-03	-.69E-02	.14E-01	.97E-02	.14E-01	-.43E-03	-.14E-01	.27E-01
50	.14E+01	0.	.85E+00	.43E+03	.71E+03	.52E+03	-.20E+01	-.47E+02	.12E+03	.72E+03	.59E+03	.39E+03	.19E+03
				-.10E-01	.11E-01	-.31E-02	-.44E-03	-.74E-02	.18E-01	.13E-01	.20E-02	-.17E-01	.29E-01
51	.15E+01	0.	.85E+00	-.13E+04	-.11E+04	-.12E+04	.42E+02	-.11E+03	.94E+02	-.10E+04	-.11E+04	-.13E+04	.17E+03
				-.75E-02	.72E-02	-.51E-03	.67E-02	-.17E-01	.15E-01	.13E-01	.14E-02	-.15E-01	.27E-01
52	.19E+01	.19E+00	.85E+00	.94E+03	.99E+03	.89E+03	-.13E+02	-.18E+01	.30E+02	.10E+04	.95E+03	.87E+03	.88E+02
				.23E-03	.46E-02	-.40E-02	-.21E-02	-.29E-03	.57E-02	.49E-02	.14E-02	-.54E-02	.10E-01
53	.13E+01	.13E+00	.85E+00	.36E+04	.36E+04	.35E+04	-.56E+02	.26E+02	.49E+02	.36E+04	.35E+04	.34E+04	.14E+03
				-.75E-02	.99E-02	-.48E-02	-.89E-02	.40E-02	.77E-02	.11E-01	-.16E-02	-.11E-01	.22E-01
54	.14E+01	.69E-01	.76E+00	.20E+04	.23E+04	.21E+04	-.88E+01	-.18E+02	.74E+02	.23E+04	.21E+04	.20E+04	.15E+03
				-.85E-02	.11E-01	-.16E-02	-.14E-02	-.20E-02	.12E-01	.11E-01	.15E-02	-.12E-01	.23E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 7 MATERIAL = 1

I	J	K	U	V	W	H
3	3	3	.1188E-01	.1517E-02	-.1832E-01	.8456E+00
5	3	3	.9414E-02	.1108E-02	-.1918E-01	-.9199E-01
5	5	3	.9279E-02	.2137E-02	-.1511E-01	.2426E+01
3	5	3	.1170E-01	.2914E-02	-.1815E-01	-.9138E+00
3	3	5	.9286E-02	.1424E-02	-.1654E-01	.2753E+00
5	3	5	.7916E-02	.1325E-02	-.1391E-01	.3054E+00
5	5	5	.7889E-02	.2431E-02	-.1300E-01	.1219E+00
3	5	5	.9066E-02	.3101E-02	-.1820E-01	.9808E+00
4	3	3	.1057E-01	.1296E-02	-.1672E-01	
5	4	3	.9348E-02	.1631E-02	-.1514E-01	
4	5	3	.1041E-01	.2494E-02	-.1661E-01	
3	4	3	.1179E-01	.2231E-02	-.1823E-01	
3	3	4	.1039E-01	.1735E-02	-.1723E-01	
5	3	4	.8639E-02	.1291E-02	-.1448E-01	
5	5	4	.8589E-02	.2435E-02	-.1392E-01	
3	5	4	.1036E-01	.3079E-02	-.1712E-01	
4	3	5	.8442E-02	.1691E-02	-.1520E-01	
5	4	5	.7956E-02	.1905E-02	-.1361E-01	
4	5	5	.8308E-02	.2751E-02	-.1457E-01	
3	4	5	.9568E-02	.2308E-02	-.1669E-01	

STRESSES FOR BRICKH ELEMENT NO. 7 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
55	.11E+01	.11E+00	.46E+00	.52E+04	.55E+04	.54E+04	-.40E+02	.54E+02	.41E+02	.59E+04	.54E+04	.52E+04	.19E+03
				-.14E-01	.13E-01	.53E-02	-.63E-02	.85E-02	.64E-02	.15E-01	.44E-02	-.15E-01	.30E-01
56	.13E+01	.13E+00	.46E+00	-.47E+03	-.22E+03	-.30E+03	-.26E+02	.29E+02	.74E+02	-.21E+03	-.20E+03	-.50E+03	.14E+03
				-.11E-01	.81E-02	.17E-02	-.41E-02	.47E-02	.12E-01	.89E-02	.36E-02	-.14E-01	.23E-01
57	.13E+01	.26E+00	.46E+00	.15E+05	.15E+05	.15E+05	-.48E+02	.54E+02	.72E+02	.16E+05	.15E+05	.15E+05	.16E+03
				-.10E-01	.78E-02	.85E-02	-.76E-02	.85E-02	.11E-01	.12E-01	.68E-02	-.13E-01	.25E-01
58	.11E+01	.22E+00	.46E+00	-.59E+04	-.56E+04	-.57E+04	-.71E+02	.99E+02	.49E+02	-.58E+04	-.57E+04	-.60E+04	.19E+03
				-.13E-01	.11E-01	.46E-02	-.11E-01	.87E-02	.71E-02	.14E-01	.41E-02	-.16E-01	.29E-01
59	.12E+01	.12E+00	.66E+00	.16E+04	.20E+04	.17E+04	.87E+02	-.94E+02	.79E+02	.29E+04	.17E+04	.15E+04	.29E+03
				-.12E-01	.19E-01	-.33E-02	.14E-01	-.15E-01	.13E-01	.22E-01	-.53E-03	-.18E-01	.40E-01
60	.14E+01	.14E+00	.66E+00	.19E+04	.20E+04	.19E+04	-.48E+02	.43E+02	.55E+02	.21E+04	.20E+04	.18E+04	.12E+03
				-.43E-02	.80E-02	-.12E-02	-.76E-02	.68E-02	.86E-02	.96E-02	.18E-02	-.89E-02	.18E-01
61	.14E+01	.27E+00	.66E+00	.74E+03	.85E+03	.79E+03	-.46E+02	.10E+03	.49E+02	.93E+03	.80E+03	.66E+03	.13E+03
				-.22E-02	.66E-02	.17E-02	-.73E-02	.16E-01	.78E-02	.13E-01	.22E-02	-.86E-02	.21E-01
62	.12E+01	.23E+00	.66E+00	.36E+04	.38E+04	.37E+04	-.15E+03	.13E+03	.39E+02	.39E+04	.37E+04	.35E+04	.23E+03
				-.71E-02	.94E-02	.93E-03	-.24E-01	.21E-01	.62E-02	.19E-01	.80E-03	-.17E-01	.37E-01
63	.13E+01	.19E+00	.66E+00	.27E+04	.29E+04	.28E+04	-.41E+02	.55E+02	.66E+02	.30E+04	.29E+04	.27E+04	.15E+03
				-.10E-01	.82E-02	.84E-03	-.65E-02	.86E-02	.10E-01	.19E-01	.19E-02	-.13E-01	.23E-01

DISPLACEMENTS FOR BRICKH ELEMENT NO. 8 MATERIAL = 1

I	J	K	U	V	W	H
3	3	5	.9286E-02	.1424E-02	-.1654E-01	.2750E+00
9	3	9	.7918E-02	.1329E-02	-.1391E-01	.3094E+00
5	5	5	.7889E-02	.2431E-02	-.1380E-01	.1216E+00
3	5	5	.9086E-02	.3101E-02	-.1620E-01	.9809E+00
3	3	7	.7228E-02	.1481E-02	-.1531E-01	.5537E+00
9	3	7	.6626E-02	.9415E-03	-.1313E-01	.1400E+00
5	5	7	.6468E-02	.1518E-02	-.1195E-01	.1009E+01
9	9	7	.6721E-02	.2720E-02	-.1406E-01	.2109E-01
4	3	5	.8442E-02	.1691E-02	-.1520E-01	
9	4	5	.7996E-02	.1905E-02	-.1361E-01	
4	5	5	.8308E-02	.2751E-02	-.1457E-01	
3	4	5	.9568E-02	.2380E-02	-.1669E-01	
3	3	6	.8275E-02	.1956E-02	-.1587E-01	
9	3	6	.7248E-02	.1209E-02	-.1348E-01	
5	5	6	.7188E-02	.2125E-02	-.1234E-01	
3	9	6	.7872E-02	.2982E-02	-.1538E-01	
4	3	7	.6756E-02	.1212E-02	-.1418E-01	
9	4	7	.6649E-02	.1279E-02	-.1206E-01	
4	5	7	.6308E-02	.2121E-02	-.1328E-01	
9	4	7	.7018E-02	.2131E-02	-.1919E-01	

STRESSES FOR BRICKH ELEMENT NO. 8 MATERIAL = 1

POINT	X	Y	Z	SIGMAX EPSX	SIGMAY EPSY	SIGMAZ EPSZ	TAUXY GAMMAXY	TAUYZ GAMMAYZ	TAUZX GAMMAZX	SIGMA1 EPS1	SIGMA2 EPS2	SIGMA3 EPS3	TAUMAX GAMMAMAX
64	.12E+01	.12E+00	.66E+00	.16E+04	.20E+04	.17E+04	.87E+02	-.42E+02	.79E+02	.20E+04	.18E+04	.15E+04	.23E+03
				-.12E-01	.19E-01	-.70E-03	.14E-01	-.66E-02	.12E-01	.21E-01	.18E-02	-.16E-01	.37E-01
65	.14E+01	.14E+00	.66E+00	.19E+04	.20E+04	.19E+04	-.48E+02	.43E+02	.55E+02	.21E+04	.20E+04	.18E+04	.12E+03
				-.43E-02	.80E-02	-.12E-02	-.76E-02	.68E-02	.86E-02	.96E-02	.10E-02	-.89E-02	.10E-01
66	.14E+01	.27E+00	.66E+00	.74E+03	.85E+03	.79E+03	-.46E+02	.18E+03	.49E+02	.93E+03	.80E+03	.66E+03	.13E+03
				-.22E-02	.66E-02	.17E-02	-.73E-02	.15E-01	.70E-02	.13E-01	.22E-02	-.86E-02	.21E-01
67	.12E+01	.23E+00	.66E+00	.38E+04	.38E+04	.37E+04	-.19E+03	.13E+03	.39E+02	.39E+04	.37E+04	.39E+04	.23E+03
				-.71E-02	.94E-02	.93E-03	-.24E-01	.21E-01	.62E-02	.19E-01	.88E-03	-.17E-01	.37E-01
68	.13E+01	.13E+00	.85E+00	.34E+04	.36E+04	.35E+04	-.56E+02	.26E+02	.49E+02	.36E+04	.35E+04	.34E+04	.14E+03
				-.75E-02	.99E-02	-.40E-02	-.89E-02	.40E-02	.77E-02	.11E-01	-.16E-02	-.11E-01	.22E-01
69	.15E+01	.15E+00	.85E+00	.94E+03	.99E+03	.89E+03	-.13E+02	-.18E+01	.36E+02	.10E+04	.95E+03	.87E+03	.66E+02
				.23E-03	.46E-02	-.40E-02	-.21E-02	-.29E-03	.57E-02	.49E-02	.14E-02	-.54E-02	.10E-01
70	.19E+01	.20E+00	.84E+00	.70E+04	.69E+04	.68E+04	-.84E+02	.12E+03	.30E+01	.70E+04	.69E+04	.67E+04	.19E+03
				.57E-02	.17E-03	-.38E-02	-.10E-01	.19E-01	.47E-03	.11E-01	.34E-02	-.12E-01	.23E-01
71	.13E+01	.25E+00	.85E+00	.55E+02	.22E+03	.12E+03	-.12E+03	.12E+03	.35E+02	.33E+03	.12E+03	-.56E+02	.19E+03
				-.66E-02	.64E-02	-.15E-02	-.18E-01	.19E-01	.56E-02	.15E-01	-.11E-02	-.15E-01	.30E-01
72	.13E+01	.20E+00	.75E+00	.24E+04	.25E+04	.24E+04	-.56E+02	.58E+02	.43E+02	.26E+04	.24E+04	.23E+04	.12E+03
				-.53E-02	.69E-02	-.19E-02	-.88E-02	.91E-02	.68E-02	.94E-02	.14E-04	-.97E-02	.19E-01

AD-A053 607 ARMY MISSILE RESEARCH AND DEVELOPMENT COMMAND REDSTO--ETC F/G 21/9.2
THREE-DIMENSIONAL FINITE ELEMENT ANALYSIS OF A SOLID PROPELLANT--ETC(U)
NOV 77 R M HACKETT

UNCLASSIFIED DRDMI-T-78-18 NL

2 OF 2
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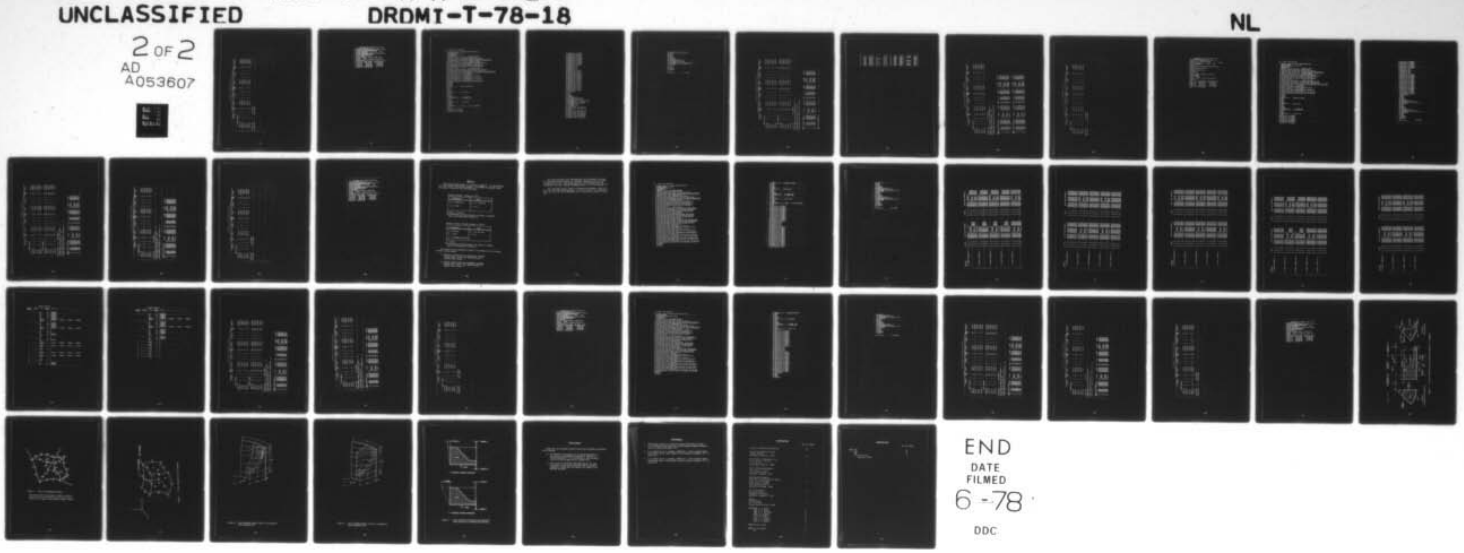
A053607



END
DATE
FILMED
6-78
DDC

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	3	3	3	57	.155E+05	1	3	5	32	.803E+04	1	1	5	17	.803E+04
SIGMA MIN	1	3	5	35	-.134E+05	1	1	5	14	-.719E+04	3	3	3	58	-.508E+04
TAU MAX	1	3	5	35	.303E+03	1	1	3	1	.275E+03	1	1	5	13	.269E+03
EPS MAX	1	1	3	1	.231E-01	1	1	3	4	.219E-01	1	3	3	19	.219E-01
EPS MIN	1	3	5	35	-.276E-01	1	1	5	13	-.227E-01	1	1	3	8	-.227E-01
GAMMA MAX	1	3	5	35	.478E-01	1	1	3	1	.434E-01	1	1	5	13	.429E-01

TIME IN POST = 1.120 SECONDS

TIME IN STOP = 85.501 SECONDS

```
        NICOM SCOPE 3.4.2 HN SN 68 MXN 9.0 14.27
 19.22.58.MM1KPGM   FROM     /KP
 19.22.58.IP   00000576 WORDS - FILE INPUT   , DC 88
 19.22.58.MM1KP,T1000,CM200000,L100.
 19.22.59.7E61K10N05 7200  A3 HACKETT     0M01
 19.23.00.LIMIT(1000)
 19.23.00.ATTACH(TEX3B,KPXXXMM,ID=KPXX,CY=3,MR=1)
 19.23.00.DISPOSE(OUTPUT,*PR=C)
 19.41.54.LOSET(PRESET=ZERO)
 19.41.54.TEX3B.
 16.29.10.  NON-FATAL ERROR(S) IN OVERLAY GEN.
 16.37.31.     STOP
 16.37.31.     85.588 CP SECONDS EXECUTION TIME
 16.37.31.EXIT.
 16.37.31.OP   0004 3000 WORDS - FILE OUTPUT , DC 40
 16.37.31.MS    43000  WORDS  (  340480 MAX USED)
 16.37.31.CPA       92.477 SEC.        83.238 ADJ.
 16.37.31.IO        96.901 SEC.        94.636 ADJ.
 16.37.31.CM     9367.442 KWS.         95.276 ADJ.
 16.37.32.PP      190.389 SEC.      DATE 10/10/77
 16.37.32.EJ  END OF JOB. KP
```

```
LINE   DIRECT LIST OF INPUT DATA

   1 $FINOCYL - STAR TO CYLINDRICAL 4ORE TRANSITION (I)
   2 SETUP,4,PRESGRID
   3 ISO,PROPELLANT,1,1 9:4,.499
   4 ISO,CASE,2,3.EF,.3
   5 END,MATERIALS
   6 BLOCK-G,1, 1,1,1, :.5,3, 7.,/     $ PROPELLANT NODES
   7 .9:.,.,, 2.447,.,.. 1.736,1.73,,.. .665,.665,./
   8 .9:.,.,.403, 2.447,.,.,.63, 1.73u,1.73u,.403, .665,.665,.403
   9 1u,2.430,.631,.9, 12,.814,.473,0, 18,2.43u,.631,.463, 2u,.814,.47u,.463/
  10 22,2.180,1.258,6, 24, 9u8,.2.3,3, 30,2 186,1 258,.433, 32,.9u8,.243,.403
  11 BLOCK-G,.. 1,1,3, :.5,.7,  7,.5    $ PROPELLANT NODES
  12 .9:.,.,.403, 2.447,.,.,.63, 1.730,1.730,.403, .665,.665,.403/
  13 2.1:3,6,1.942, 2.447,.,.1.942, 1 736,1.73,1 942, .665,.665,1.942
  14 1.,2.436,.631,.403, .2,.814,.47u,.463, 13,.31,.,.973/
  15 18,2.436,.631,1.94:, 24,1.15,.33,1.942, 22,2.180,1.258,.33/
  16 24,.907,.243,.403, 29,1.775,3,1.432, 3u,2.186,1.258,1.942/
  17 32,1 75, 33,1.942
  18 BLOCK-G,1, 1,1,7, :.5,.5, 7,.5       $ PROPELLANT NODES
  19 2.1:3,6,1.942, 2.447,.,.1.942, 1.736,1.736,1.942, .665,.665,1.942/
  20 2.1:3,6,2.405, 2.447,.,.2.405, 1.736,1.73,2.405, .665,.665,2.405
  21 1.,2.430,.631,1.94:, 12,1.15,.33,1.942, 18,2.43,,.631,2.4.5, 2.,1.15,.33,2.,L5/
  22 22,2.180,1.258,1.942, 24,1.75,.33,1.942, 3u,2.18,1.:.3,2.405, 32,1.75,.33,2.405
  23 BLOCK,2, 5,1,1, 7,:,3     $ CASE NODES
  24 2.447,.,.,.2.517,.,.,.2.517,.43,.,2.447,.,.,./
  25 2.447,.,.403,2.517,.,.,.403,2.517,.45,.,.403,2.447,.45,.,.403
  26 BLOCK,2, 5,1,3, 7,5,7     $ CASE NODES
  27 2.447,.,.,.403,2.517,.,.,.403,2.517,.45,.,.403,2.447,.45,.,.433/
  28 2.447,.,.1.942,2.517,.,.,1.942,2.517,.45,1.942,2.447,.45,1.942
  29 BLOCK,2, 5,1,7, 7,:,9     $ CASE NODES
  30 2.447,.,.,1.942,2.517,.,.,1.942,2.517,.45,1.942,2.447,.45,1.942/
  31 2.447,.,.2.405,2.517,.,.,2.405,2.517,.45,2.405,2.517,.45,2.447,.45,2.405
  32 END,GRID
  33 KLOOP,4
  34 ILOOP,2
  35 JLOOP,2
  36 BRICKH,1, 1,1,1     $ PROPELLANT ELEMENTS
  37 JEND
  38 IEND
  39 KEND
  40 KLOOP,4
  41 JLOOP,2
  42 BRICK,2, 5,1,1     $ CASE ELEMENTS
  43 JEND
  44 KEND
  45 KLOOP,4
  46 ILOOP,3
  47 BC,SLOPE,1,1,1, 5     $  5 DEGREE FACE
  48 BC,SLOPE,1,3,1, 2     $ 45 DEGREE FACE
  49 IEND
  50 KEND
  51 JLOOP,2
  52 BC,SLOPE,2,1,1, 0     $ END OF CASE
  53 JEND
  54 KLOOP,4
  55 JLOOP,2
  56 BC,PRESSURE, 1,1,1, 4.1.425E3     $ 1425 PSI PRESSURE
  57 JEND
  58 KEND
  59 BC,UZ,1,1,1, 0,-2.184E-2
  60 BC,UZ,1,2,1, 0,-2.184E-2
  61 BC,UZ,1,3,1, 0,-2.184E-2
```

```
   BC,UZ,1,5,1, 0,-2.184E-2
   BC,UZ,2,1,1, 0,-1.038E-2
   BC,UZ,2,3,1, 0,-1.038E-2
   BC,UZ,2,5,1, 0,-1.038E-2
   BC,UZ,3,1,1, 0,-1.692E-2
   BC,UZ,3,2,1, 0,-1.692E-2
   BC,UZ,3,3,1, 0,-1.692E-2
   BC,UZ,3,4,1, 0,-1.692E-2
   BC,UZ,3,5,1, 0,-1.692E-2
   BC,UZ,4,1,1, 0,-0.540E-2
   BC,UZ,4,3,1, 0,-0.540E-2
   BC,UZ,4,5,1, 0,-0.540E-2
   BC,UZ,5,1,1, 0,0.
   BC,UZ,5,2,1, 0,0.
   BC,UZ,5,3,1, 0,0.
   BC,UZ,5,4,1, 0,0.
   BC,UZ,5,5,1, 0,0.
   BC,UZ,1,1,9, 0,-.215E-2
   BC,UZ,1,2,9, 0,-.266E-2
   BC,UZ,1,3,9, 0,-.347E-2
   BC,UZ,1,4,9, 0,-.435E-2
   BC,UZ,1,5,9, 0,-.482E-2
   BC,UZ,2,1,9, 0,-.246E-2
   BC,UZ,2,3,9, 0,-.296E-2
   BC,UZ,2,5,9, 0,-.384E-2
   BC,UZ,3,1,9, 0,-.104E-2
   BC,UZ,3,2,9, 0,-.246E-2
   BC,UZ,3,3,9, 0,-.257E-2
   BC,UZ,3,4,9, 0,-.317E-2
   BC,UZ,3,5,9, 0,-.341E-2
   BC,UZ,4,1,9, 0,-.118E-2
   BC,UZ,4,3,9, 0,-.194E-2
   BC,UZ,4,5,9, 0,-.234E-2
   BC,UZ,5,1,9, 0,-.153E-2
   BC,UZ,5,2,9, 0,-.153E-2
   BC,UZ,5,3,9, 0,-.153E-2
   BC,UZ,5,4,9, 0,-.153E-2
   BC,UZ,5,5,9, 0,-.153E-2
END,ELEMENTS
SOLVE
POST
BLOCK
OPTION,2
END,POST
REZONE,1,1,2, 3,3,9
REFINE,GRADS,1,1,5, 2,2,2
REFINE,GRADS,1,1,7, 2,2,2
BCR,REZONE,1,1,5, 2,2,2,1,2,2, 1,1,5
BCR,REZONE,1,1,7, 2,2,2,1,2,2, 1,1,9
BC,PRESSURE,1,1,5, 4,1.425E3
BC,PRESSURE,1,1,7, 4,1.425E3
REPOS,REZONE,1,1,5
REPOS,REZONE,1,1,7
END,CONTROL
POINT,1,1,2,5, 2.648,.233,1.942
POINT,1,1,3,5, 1.825,.33,1.942
END,SET
POINT,1,1,2,1, 2.648,.233,1.942
POINT,1,1,3,1, 1.825,.33,1.942
POINT,1,1,2,2, 2.648,.233,2.06
POINT,1,1,3,2, 1.825,.33,2.06
POINT,1,1,2,3, 2.648,.233,2.17
POINT,1,1,3,3, 1.825,.33,2.17
POINT,1,1,2,4, 2.648,.233,2.29
POINT,1,1,3,4, 1.825,.33,2.29
```

```
                                                    [illegible]
129 POINT,1,1,3,5, 1,0.5,.33,2,4.5
130 END,SET
131 SOLVE
132 POST
133 BLOCK
134 OPTION,2
135 END,POST
136 REZONE,1,1,7, 3,3,.1
137 REFINE,GRADS,1,1,7, 2,2,2
138 REFINE,GRADS,1,1,9, 2,2,2
139 BCS,REZONE, 1,1,7, 2,2,2,2,2,2, 1,1,7
140 BCR,REZONE, 1,1,9, 2,2,2,2,2,2, 1,1,11
141 END,CONTROL
142 SOLVE
143 POST
144 BLOCK
145 OPTION,2
146 END,POST
147 STOP

TIME IN FFLOSS     =       1.141 SECONDS
```

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	1	4	4	-.837E+03	1	1	1	1	-.941E+03	1	3	1	1	-.841E+03
SIGMA MIN	3	1	1	20	-.103E+04	3	1	1	21	-.168E+04	3	3	1	29	-.108E+04
TAU MAX	1	1	5	73	.276E+03	1	1	3	41	.276E+03	1	1	3	37	.275E+03
EPS MAX	1	1	1	4	.234E-01	1	1	1	5	.231E-01	1	3	1	16	.231E-01
EPS MIN	1	1	5	73	-.292E-01	1	1	3	41	-.292E-01	1	1	3	77	-.292E-01
GAMMA MAX	1	1	5	73	.585E-01	1	1	3	41	.585E-01	1	1	3	37	.584E-01
MATERIAL NUMBER = 2															
SIGMA MAX	5	3	7	209	.951E+05	5	3	1	210	.947E+05	5	3	1	155	.933E+05
SIGMA MIN	5	1	7	203	-.142E+05	5	1	7	206	-.127E+05	5	1	7	199	-.124E+05
TAU MAX	5	3	1	154	.298E+05	5	3	1	157	.289E+05	5	3	7	208	.285E+05
EPS MAX	5	3	1	156	.178E-02	5	3	7	210	.177E-02	5	3	5	196	.177E-02
EPS MIN	5	1	7	203	-.832E-03	5	1	7	199	-.803E-03	5	3	7	212	-.787E-03
GAMMA MAX	5	3	1	154	.252E-02	5	3	1	157	.251E-02	5	3	7	208	.247E-02

TIME IN POST = 3.153 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 16

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 19

COARSE GRID ELEMENT = 9

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	50101	.134E+01	0.	.120E+01	11	50302	.143E+01	.489E+00	.12.E+ 1
2	50103	.139E+01	0.	.120E+01	12	50201	.140E+01	.244E+00	.12uE+.1
3	50303	.172E+01	.640E+00	.120E+01	13	60101	.188E+01	0.	.155E+.1
4	50301	.136E+01	.345E+00	.120E+01	14	60103	.217E+01	0.	.156E+.1
5	70101	.215E+01	0.	.194E+01	15	60303	.179E+.1	.627E+00	.157E+ 1
6	70103	.236E+01	0.	.194E+01	16	60301	.133E+01	.337E+00	.156E+.1
7	70303	.189E+01	.640E+00	.194E+01	17	70102	.222E+01	0.	.194E+.1
8	70301	.140E+01	.338E+00	.194E+01	18	70203	.217E+01	.390E+00	.194E+.1
9	50102	.177E+01	0.	.120E+01	19	70302	.167E+01	.489E+00	.194E+.1
10	50203	.192E+01	.383E+00	.120E+01	20	70201	.188E+01	.384E+00	.194E+.1

COARSE GRID ELEMENT = 13

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD

1	70101	.215E+01	..	.194E+01	11	70302	.167E+01	.489E+00	.194E+01
2	70103	.230E+01	0.	.194E+01	12	70201	.188E+01	.384E+00	.194E+01
3	70303	.189E+01	.648E+00	.194E+01	13	80101	.215E+01	0.	.217E+01
4	70301	.146E+01	.330E+00	.194E+01	14	80103	.234E+01	0.	.217E+01
5	90101	.215E+01	0.	.241E+01	15	80303	.187E+01	.632E+00	.217E+01
6	90103	.230E+01	0.	.241E+01	16	80301	.146E+01	.330E+00	.217E+01
7	90303	.134E+01	.612E+00	.241E+01	17	90102	.222E+01	0.	.241E+01
8	90301	.146E+01	.330E+00	.241E+01	18	90203	.215E+01	.391E+00	.241E+01
9	70102	.222E+01	0.	.194E+01	19	90302	.166E+01	.464E+00	.241E+01
10	70203	.217E+01	.390E+00	.194E+01	20	90201	.188E+01	.384E+00	.241E+01

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	3	1	11	123	.025E+04	1	3	11	164	.012E+04	3	1	9	38	.001E+04
SIGMA MIN	1	3	11	107	-.078E+04	1	1	11	86	-.081E+04	1	1	11	87	-.051E+04
TAU MAX	1	3	9	95	.815E+03	1	3	11	166	.736E+03	1	3	11	164	.363E+03
EPS MAX	1	3	9	95	.865E-01	1	3	11	168	.526E-01	1	3	11	166	.032E-01
EPS MIN	1	3	11	108	-.625E-01	1	3	9	98	-.621E-01	1	1	9	1	-.292E-01
GAMMA MAX	1	3	9	95	.123E+00	1	3	11	168	.115E+00	1	3	11	166	.573E-01

TIME IN POST = 2.687 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 16

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 15

COARSE GRID ELEMENT = 2

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	70101	.150E+01	.00	.155E+01	11	70302	.176E+01	.297E+00	.156E+01
2	70103	.202E+01	.00	.155E+01	12	70201	.179E+01	.163E+00	.155E+01
3	70303	.136E+01	.328E+00	.155E+01	13	00101	.262E+01	.00	.174E+01
4	70301	.137E+01	.274E+00	.155E+01	14	00103	.213E+01	.00	.175E+01
5	90101	.215E+01	.00	.194E+01	15	00303	.195E+01	.333E+00	.175E+01
6	90103	.222E+01	.00	.194E+01	16	00301	.178E+01	.289E+00	.175E+01
7	90303	.203E+01	.347E+00	.194E+01	17	90102	.218E+01	.00	.194E+01
8	90301	.182E+01	.338E+00	.194E+01	18	90203	.214E+01	.199E+00	.194E+01
9	70102	.135E+01	.00	.155E+01	19	90302	.195E+01	.326E+00	.194E+01
10	70203	.136E+01	.180E+00	.155E+01	20	90201	.205E+01	.233E+00	.194E+01

COARSE GRID ELEMENT = 9

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	90101	.215E+01	.00	.194E+01	11	90302	.195E+01	.326E+00	.194E+01
2	90103	.222E+01	.00	.194E+01	12	90201	.205E+01	.233E+00	.194E+01
3	90303	.203E+01	.347E+00	.194E+01	13	100101	.215E+01	.00	.206E+01
4	90301	.192E+01	.338E+00	.194E+01	14	100103	.222E+01	.00	.206E+01
5	110101	.215E+01	.00	.217E+01	15	100303	.202E+01	.347E+00	.206E+01
6	110103	.222E+01	.00	.217E+01	16	100301	.192E+01	.336E+00	.206E+01
7	110303	.202E+01	.347E+00	.217E+01	17	110102	.218E+01	.00	.217E+01
8	110301	.192E+01	.338E+00	.217E+01	18	110203	.214E+01	.208E+00	.217E+01
9	90102	.218E+01	.00	.194E+01	19	110302	.195E+01	.325E+00	.217E+01
10	90203	.214E+01	.199E+00	.194E+01	20	110201	.205E+01	.233E+00	.217E+01

E L E M E N T S U M M A R Y R E P O R T

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST ELEMENT I	J	K	POINT NO.	STRESS	SECOND ELEMENT I	J	K	POINT NO.	STRESS	THIRD ELEMENT I	J	K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	1	3	89	.104E+03	1	3	3	104	.184E+05	3	1	3	124	.120E+05
SIGMA MIN	1	3	7	22	-.013E+03	1	1	3	86	-.284E+05	3	1	3	123	-.195E+05
TAU MAX	3	1	3	120	.055E+03	3	1	1	115	.086E+03	3	3	1	132	.865E+03
EPS MAX	3	3	9	69	.594E-01	3	1	9	52	.594E-01	3	1	1	115	.491E-01
EPS MIN	3	1	3	120	-.594E-01	3	3	3	137	-.196E-01	3	1	1	115	-.594E-01
GAMMA MAX	3	1	3	120	.118E+00	3	1	1	115	.168E+04	3	3	3	137	.118E+00

TIME IN POST = 2.566 SECONDS

TIME IN STOP = 122.537 SECONDS

```
      *ICOM SCOPE 3.4.2 HN SN 48 MXN R.D 14.57
15.51.43.MM1KPCM  FROM     /KP
15.51.43.IP   .JC..1472 WORDS - FILE INPUT  , JJ ..J
15.51.44.MM1KP,T180J,CM260000,L1000.
15.51.44.                                                    000186
15.51.45.3F35K1FF05 7284  A3 HACKETT    8MN1
15.51.45 LIMIT(1000)
15.51.45.
15.51.45.ATTACH(TEX3B,KPXXXMM,ID=KPXXX,CY=3,MR=1)
15.51.45.
15.51.45 DISPOSE(OUTPUT,*PK=C)
15.51.46.
15.51.48.LOSE(PRESET=ZERO)
15.51.48.
15.51.48.TEX3B.
15.51.49.
16.05.15. NON-FATAL ERROR(S) IN OVERLAY GEN.
16.31.45.LOGKIN.
16.32.3..UNLOCK.
16.35.1.      STOP
16.35.1..    122.561 CP SECONDS EXECUTION TIME
16.35.11.EXIT.
16.35.10.
16.35.10.JP   0007728 WORDS - FIL. OUTPUT , JJ ..J
16.35.1..4S    0.928  WORDS  (  347648 MAX USED)
16.35.1..CPA     129.764 SEC.       116.745 ADJ.
16.35.1..IO      141.122 SEC.        79.833 ADJ.
16.35.1..CM    13569 419 KWS.       137.464 ADJ
16.35.1..PP      271.886 SEC.      DATE 11/26/77
16.35.1..EJ   END OF JOB, KP
```

```
LINE   DIRECT LIST OF INPUT DATA

   1 $FINOCYL - STAR TO CYLINDRICAL BORE TRANSITION (I)
   2 SETUP,4,PRESCRIB
   3 ISO,PROPELLANT,1..7E3,..499,-.013245
   4 ISO,CASE,2,3,E7,.3
   5 END,MATERIALS
   6 BLOCK-C,1, 1,1,1, 9,9,3, 7,.9     $ PROPELLANT NODES
   7 .99,0,0, 2.447,0,0, 1.736,1.730,0, .665,.665,0/
   8 .99,0,.463, 2.447,0,.463, 1.730,1.730,.463, .665,.665,.463
   9 10,2.430,.651,0, 12,.814,.478,0, 18,2.430,.651,.463, 20,.814,.478,.463/
  10 22,2.188,1.250,0, 24,.900,.243,0, 30,2.188,1.250,.463, 32,.900,.243,.463
  11 BLOCK-C,1, 1,1,3, 5,5,7,  7,.9     $ PROPELLANT NODES
  12 .99,0,.463, 2.447,0,.463, 1.730,1.730,.803, .809,.809,.803/
  13 2.145,0,1.942, 2.447,0,1.942, 1.730,1.730,1.942, .665,.665,1.942
  14 10,2.430,.651,.463, 12,.814,.473,.463, 13,1.31,0,.973/
  15 10,2.430,.651,1.942, 20,1.15,.33,1.942, 22,2.188,1.250,.463/
  16 24,.907,.243,.463, 25,1.775,0,1.432, 30,2.188,1.250,1.942/
  17 32,1.75,.33,1.942
  18 BLOCK-C,1, 1,1,5, 5,5,9, 7,.5     $ PROPELLANT NODES
  19 2.145,0,1.942, 2.447,0,1.942, 1.730,1.730,1.942, .665,.665,1.942/
  20 2.145,0,2.485, 2.447,0,2.485, 1.730,1.730,2.485, .665,.665,2.485
  21 10,2.430,.651,1.942, 12,1.15,.33,1.942, 18,2.430,.651,2.485, 20,1.15,.33,2.485/
  22 22,2.188,1.250,1.942, 24,1.75,.33,1.942, 30,2.18,1.250,2.485, 32,1.75,.33,2.485
  23 BLOCK,2, 5,1,1, 7,5,3     $ CASE NODES
  24 2.447,0,0, 2.917,0,0, 2.517,45,0, 2.447,45,0/
  25 2.447,0,.463, 2.917,0,.463, 2.517,45,.463, 2.447,45,.463
  26 BLOCK,2, 5,1,3, 7,5,7     $ CASE NODES
  27 2.447,0,.463, 2.517,0,.463, 2.517,45,.463, 2.447,45,.463/
  28 2.447,0,1.942, 2.517,0,1.942, 2.517,45,1.942, 2.447,45,1.942
  29 BLOCK,2, 5,1,7, 7,5,9     $ CASE NODES
  30 2.447,0,1.942, 2.517,0,1.942, 2.517,45,1.942, 2.447,45,1.942/
  31 2.447,0,2.485, 2.517,0,2.485, 2.517,45,2.485, 2.447,45,2.485
  32 END,GRID
  33 KLOOP,4
  34 ILOOP,2
  35 JLOOP,2
  36 BRICKH,1, 1,1,1     $ PROPELLANT ELEMENTS
  37 JEND
  38 IEND
  39 KEND
  40 KLOOP,4
  41 JLOOP,2
  42 BRICK,2, 5,1,1     $ CASE ELEMENTS
  43 JEND
  44 KEND
  45 KLOOP,4
  46 ILOOP,3
  47 BC,SLOPE,1,1,1, 5     $  0 DEGREE FACE
  48 BC,SLOPE,1,3,1, 2     $ 45 DEGREE FACE
  49 IEND
  50 KEND
  51 JLOOP,2
  52 BC,SLOPE,5,1,1, 6     $ END OF CASE
  53 JEND
  54 BC,UZ,1,1,1, 0,-7.385E-2
  55 BC,UZ,1,2,1, 0,-7.385E-2
  56 BC,UZ,1,3,1, 0,-7.385E-2
  57 BC,UZ,1,4,1, 0,-7.385E-2
  58 BC,UZ,1,5,1, 0,-7.385E-2
  59 BC,UZ,2,1,1, 0,-5.538E-2
  60 BC,UZ,2,3,1, 0,-5.538E-2
  61 BC,UZ,2,5,1, 0,-5.538E-2
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 63 BC,UZ,3,2,1, 0,-3.692E-2
 64 BC,UZ,3,3,1, 0,-3.692E-2
 65 BC,UZ,3,4,1, 0,-3.692E-2
 66 BC,UZ,3,5,1, 0,-3.692E-2
 67 BC,UZ,4,1,1, 0,-1.846E-2
 68 BC,UZ,4,3,1, 0,-1.846E-2
 69 BC,UZ,4,5,1, 0,-1.846E-2
 70 BC,UZ,5,1,1, 0,0
 71 BC,UZ,5,2,1, 0,0
 72 BC,UZ,5,3,1, 0,0
 73 BC,UZ,5,4,1, 0,0
 74 BC,UZ,5,5,1, 0,0
 75 BC,UZ,1,1,9, 0,-.577E-2
 76 BC,UZ,1,2,9, 0,-.755E-2
 77 BC,UZ,1,3,9, 0,-1.836F-2
 78 BC,UZ,1,4,9, 0,-1.342E-2
 79 BC,UZ,1,5,9, 0,-1.436E-2
 80 BC,UZ,2,1,9, 0,-.529E-2
 81 BC,UZ,2,3,9, 0,-.859E-2
 82 BC,UZ,2,5,9, 0,-1.189E-2
 83 BC,UZ,3,1,9, 0,-.478E-2
 84 BC,UZ,3,2,9, 0,-.548E-2
 85 BC,UZ,3,3,9, 0,-.723E-2
 86 BC,UZ,3,4,9, 0,-.932E-2
 87 BC,UZ,3,5,9, 0,-1.819E-2
 88 BC,UZ,4,1,9, 0,-.414E-2
 89 BC,UZ,4,3,9, 0,-.922E-2
 90 BC,UZ,4,5,9, 0,-1.838E-2
 91 BC,UZ,5,1,9, 0,-.362E-2
 92 BC,UZ,5,2,9, 0,-.362E-2
 93 BC,UZ,5,3,9, 0,-.362E-2
 94 BC,UZ,5,4,9, 0,-.362E-2
 95 BC,UZ,5,5,9, 0,-.362E-2
 96 END,ELEMENTS
 97 SOLVE
 98 POST
 99 BLOCK
100 OPTION,2
101 END,POST
102 REZONE,1,1,3, 3,3,9
103 REFINE,GRADS,1,1,3, 2,2,2
104 BCR,REZONE,1,1,3, 2,2,2,2,2,2, 1,1,3
105 END,CONTROL
106 SOLVE
107 POST
108 BLOCK
109 OPTION,2
110 END,POST
111 REZONE,1,1,3, 3,3,5
112 REFINE,GRADS,1,1,3, 2,2,2
113 BCR,REZONE,1,1,3, 2,2,2,2,2,2, 1,1,3
114 END,CONTROL
115 SOLVE
116 POST
117 BLOCK
118 OPTION,2
119 END,POST
120 STOP

TIME IN FFLOSS     =        .843 SECONDS
```

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	J	K	POINT NO.	STRESS	ELEMENT I	J	K	POINT NO.	STRESS	ELEMENT I	J	K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	1	7	109	.181E+03	1	1	5	77	.181E+03	1	1	5	73	.176E+03
SIGMA MIN	1	1	7	116	-.426E+02	1	1	5	84	-.373E+02	1	1	7	112	-.369E+02
TAU MAX	1	1	5	73	.958E+02	1	1	3	41	.948E+02	1	1	5	77	.895E+02
EPS MAX	1	1	1	5	.197E+00	1	1	3	37	.197E+00	1	3	1	15	.178E+00
EPS MIN	1	1	5	77	-.281E+00	1	1	7	109	-.253E+00	1	1	5	73	-.253E+00
GAMMA MAX	1	1	5	73	.487E+00	1	1	3	41	.486E+00	1	1	5	77	.488E+00
MATERIAL NUMBER = 2															
SIGMA MAX	5	3	7	213	.373E+05	5	3	7	209	.367E+05	5	3	7	210	.363E+05
SIGMA MIN	5	1	7	203	-.116E+06	5	1	7	206	-.115E+06	5	3	7	212	-.114E+06
TAU MAX	5	1	7	203	.648E+05	5	3	7	212	.637E+05	5	1	7	206	.636E+05
EPS MAX	5	1	7	203	.234E-02	5	3	7	212	.233E-02	5	1	7	206	.283E-02
EPS MIN	5	1	7	203	-.321E-02	5	3	7	212	-.318E-02	5	1	7	206	-.318E-02
GAMMA MAX	5	1	7	203	.555E-02	5	3	7	212	.552E-02	5	1	7	206	.552E-02

TIME IN POST = 1.892 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 16

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 19

COARSE GRID ELEMENT = 5

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	30101	.940E+00	0.	.463E+01	11	30302	.123E+01	.511E+00	.463E+01
2	30103	.169E+01	0.	.463E+01	12	30201	.921E+00	.183E+00	.463E+01
3	30303	.150E+01	.663E+00	.463E+01	13	40101	.128E+01	0.	.954E+01
4	30301	.868E+00	.360E+01	.463E+01	14	40103	.182E+01	0.	.844E+01
5	50101	.154E+01	0.	.128E+01	15	40303	.165E+01	.652E+00	.838E+01
6	50103	.199E+01	0.	.128E+01	16	40301	.995E+00	.392E+00	.904E+01
7	50303	.172E+01	.649E+00	.128E+01	17	50102	.177E+01	0.	.129E+01
8	50301	.116E+01	.345E+00	.128E+01	18	50203	.192E+01	.363E+00	.126E+01
9	30102	.132E+01	0.	.463E+01	19	50302	.143E+01	.489E+00	.128E+01
10	30203	.169E+01	.336E+00	.463E+01	20	50201	.140E+01	.244E+00	.129E+01

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST ELEMENT I	J	K	POINT NO.	STRESS	SECOND ELEMENT I	J	K	POINT NO.	STRESS	THIRD ELEMENT I	J	K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	1	5	17	.531E+04	1	3	5	32	.531E+04	1	1	3	5	.353E+04
SIGMA MIN	1	1	5	14	-.726E+04	1	1	3	2	-.255E+04	3	1	3	37	-.255E+04
TAU MAX	1	3	5	28	.968E+02	1	3	3	23	.968E+02	1	1	3	8	.968E+02
EPS MAX	1	1	3	1	.197E+00	1	3	5	32	.194E+00	1	1	5	17	.194E+00
EPS MIN	1	1	5	14	-.253E+00	1	1	5	13	-.224E+00	1	1	3	8	-.224E+00
GAMMA MAX	1	1	5	13	.415E+00	1	1	3	8	.415E+00	1	3	3	23	.415E+00

TIME IN POST = 1.111 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 10

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 15

COARSE GRID ELEMENT = 1

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	30101	.940E+00	0.	.463E+00	11	30302	.111E+01	.221E+00	.463E+00
2	30103	.132E+01	0.	.463E+00	12	30301	.989E+00	.924E-01	.463E+00
3	30303	.131E+01	.260E+00	.463E+00	13	40101	.106E+01	0.	.664E+00
4	30301	.921E+00	.183E+00	.463E+00	14	40103	.141E+01	0.	.660E+00
5	50101	.128E+01	0.	.854E+00	15	40303	.138E+01	.278E+00	.657E+00
6	50103	.151E+01	0.	.849E+00	16	40301	.102E+01	.190E+00	.660E+00
7	50303	.146E+01	.281E+00	.845E+00	17	50102	.136E+01	0.	.852E+00
8	50301	.113E+01	.213E+00	.849E+00	18	50203	.150E+01	.140E+00	.847E+00
9	30102	.113E+01	0.	.463E+00	19	50302	.129E+01	.247E+00	.847E+00
10	30203	.132E+01	.131E+00	.463E+00	20	50201	.117E+01	.116E+00	.852E+00

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST ELEMENT I	J	K	POINT NO.	STRESS	SECOND ELEMENT I	J	K	POINT NO.	STRESS	THIRD ELEMENT I	J	K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	3	3	3	57	.478E+04	3	3	5	70	.296E+04	3	1	3	42	.278E+04
SIGMA MIN	1	3	5	35	-.379E+04	1	1	5	14	-.132E+04	1	3	3	21	-.125E+04
TAU MAX	1	3	5	35	.968E+02	1	1	5	13	.534E+02	1	3	5	28	.834E+02
EPS MAX	3	3	3	59	.288E+00	1	1	3	1	.197E+00	3	3	5	64	.183E+00
EPS MIN	1	3	5	35	-.224E+00	1	1	5	13	-.176E+00	1	3	5	28	-.176E+00
GAMMA MAX	1	3	5	35	.415E+00	1	1	5	13	.357E+00	1	3	5	28	.357E+00

TIME IN POST = 1.189 SECONDS

TIME IN STOP = 89.903 SECONDS

```
       CICOM SCOPE 3.4.2 HH SN 48 HXH R.D 14.27
 19.25.04.HH2KPBH   FROM     /KP
 19.25.04.IP   00000576 WORDS - FILE INPUT   , DC 00
 19.25.06.HH2KP.T1000,CM250000,L1000.
 19.25.06.7E41K10H05 7200  A3 HACKETT     BHB1
 19.25.06.LIMIT(1000)
 19.25.06.ATTACH(TEX38,KPXXXHH,ID=KPXXX,CY=3,HR=1)
 19.25.06.DISPOSE(OUTPUT,*PR=C)
 19.42.31.LOSET(PRESET=ZERO)
 19.46.29.TEX38.
 16.32.37.  NON-FATAL ERROR(S) IN OVERLAY GEN.
 10.44.10.     STOP
 10.44.10.     65.591 CP SECONDS EXECUTION TIME
 10.44.10.EXIT.
 10.44.10.OP   00042000 WORDS - FILE OUTPUT , DC 40
 10.44.10.MS    43000  WORDS  (  330000 MAX USED)
 10.44.10.CPA       92.547 SEC.        83.301 ADJ.
 10.44.10.IO        90.174 SEC.        94.400 ADJ.
 10.44.10.CM      9390.429 KWS.        99.103 ADJ.
 10.44.17.PP       192.357 SEC.      DATE 10/10/77
 10.44.10.EJ   END OF JOB, KP
```

MODEL II

The finite element model II is shown in Figure 5. It was analyzed for both pressure and thermal loading. The TEXGAP-3D computer input and output is shown on the following pages.

Pressure Loading - Firing at -65°F

Propellant	Case
E_p = 19,000 psi	$E_c = 3 \times 10^7$ psi
ν_p = 0.499	ν_c = 0.3

pressure = 1425 psi
Corresponding end displacements are shown on computer input and referenced to Figure 6.

Thermal Loading (2 Weeks Storage at -65°F)

Propellant	Case
E_p = 700 psi	$E_c = 3 \times 10^7$ psi
ν_p = 0.499	ν_c = 0.3
α_p = 0.000089 in/in/°F	

T_o = 140°F
Corresponding end displacements are shown on computer input and referenced to Figure 6.

The results of two analyses on Model II are shown on the following computer output sheets:

1) pressure loading with two sequential rezoning computations, without any repositioning of element nodal points;

2) thermal loading with two sequential rezoning computations, without any repositioning of element nodal points.

The first analysis, with rezoning near the cylindrical bore end of the transition (see Figure 5), yielded a maximum strain of 0.0260 in element 113 (IJK). The second analysis, with rezoning near the cylindrical bore end, yielded a maximum strain of 0.235 in element 113.

The following results consist of abbreviated computer output for both the first and second analyses. The first analysis is contained on pages 111 thru 124; the second analysis is contained on pages 125 thru 131.

```
LINE   DIRECT LIST OF INPUT DATA

   1 $FINOCYL - STAR TO CYLINDRICAL BORE TRANSITION (II)
   2 SETUP,6,PRESCRIB
   3 ISO,PROPELLANT,1.1,1.9E4,,499
   4 ISO,CASE,2.3,E7,,3
   5 END,MATERIALS
   6 BLOCK-C,1, 1,1,1, 9,3,3  $PROPELLANT NODES
   7 .99,,0.0, 2.447,0.0, 2.291,,.86,0, .88,,33,0/
   8 .99,0,,463, 2.44E,0,,463, 2.291,,8E,,463, .88,,33,,463
   9 10,2.438,,292,0, 12,,913,,223,0, 10,2.438,,292,,463, 20,,913,,223,,463/
  10 22,2.377,,588,0, 24,,933,,112,0, 3E,2.377,,588,,463, 32,,933,,112,,463
  11 BLOCK-C,1, 1,3,1, 5,5,3  $PROPELLANT NODES
  12 .88,,33,0, 2.291,,88,0, 1.738,1.738,0, .889,,889,0/
  13 .88,,33,,463, 2.291,,86,,463, 1.730,1,730,,463, .665,,665,,463
  14 1F,2.158,1.176,0, 12,,792,,559,0, 10,2.158,1.176,,463, 20,,792,,599,,463/
  15 22,1.958,1.457,0, 24,,825,,452,0, 30,1.958,1.457,,463, 32,,829,,492,,463
  16 BLOCK-C,1, 1,1,3, 9,3,7  $PROPELLANT NODES
  17 .99,0,,463, 2.447,0,,463, 2.291,,8E,,463, .88,,33,,463/
  18 2.149,0,1.942, 2.447,0,1.942, 2.291,,86,1.942, .88,,33,1.942
  19 10,2.438,,292,,463, 12,,913,,223,,463, 13,1.39,0,,963/
  20 10,2.438,,292,1.942, 20,1.483,,33,1.942, 22,2.377,,588,,463/
  21 24,,933,,112,,463, 25,1.79,0,1.383, 30,2.377,,588,1.942/
  22 3E,1.89,,33,1.942
  23 BLOCK-C,1, 1,3,3, 5,5,7  $PROPELLANT NODES
  24 .88,,33,,463, 2.291,,86,,463, 1.738,1.738,,483, .889,,889,,483/
  25 .88,,33,1.942, 2.291,,86,1.942, 1.738,1.738,1.942, .665,,665,1.942
  26 10,2.158,1.176,,463, 12,,752,,559,,463, 10,2.158,1.176,1.942/
  27 20,,752,,559,1.942, 22,1.958,1.457,,463, 24,,825,,452,,463/
  28 30,1.958,1.457,1.942, 32,,825,,492,1.942
  29 BLOCK-C,1, 1,1,7, 5,3,9  $PROPELLANT NODES
  30 2.149,0,1.942, 2.447,0,1.942, 2.291,,86,1.942, .88,,33,1.942/
  31 2.145,0,2.485, 2.447,0,2.485, 2.291,,86,2.485, .88,,33,2.485
  32 10,2.438,,292,1.942, 12,1.483,,33,1.942, 10,2.438,,292,2.485/
  33 20,1.483,,33,2.485, 22,2.377,,588,1.942, 24,1.89,,33,1.942/
  34 30,2.377,,588,2.485, 32,1.89,,33,2.485
  35 BLOCK-C,1, 1,3,7, 5,5,9  $PROPELLANT NODES
  36 .88,,33,1.942, 2.291,,86,1.942, 1.738,1.738,1.942, .665,,665,1.942/
  37 .88,,33,2.485, 2.291,,86,2.485, 1.738,1.738,2.485, .665,,665,2.485
  38 10,2.158,1.176,1.942, 12,,752,,559,1.942, 10,2.158,1.176,2.485/
  39 20,,752,,559,2.485, 22,1.958,1.457,1.942, 24,,825,,452,1.942/
  40 30,1.958,1.457,2.485, 32,,825,,452,2.485
  41 BLOCK,2, 5,1,1, 7,3,3  $CASE NODES
  42 2.447,0,0, 2.517,0,0, 2.517,20.56,0, 2.447,20.56,0/
  43 2.447,0,,463, 2.517,0,,463, 2.517,20.56,,463, 2.447,20.56,,463
  44 BLOCK,2, 5,3,1, 7,5,3,  $CASE NODES
  45 2.447,20.56,0, 2.517,20.56,0, 2.517,45,0, 2.447,45,0/
  46 2.447,20.56,,463, 2.517,20.56,,463, 2.517,45,,463, 2.447,45,,463
  47 BLOCK,2, 5,1,3, 7,3,7  $CASE NODES
  48 2.447,0,,463, 2.517,0,,463, 2.517,20.56,,463, 2.447,20.56,,463/
  49 2.447,0,1.942, 2.517,0,1.942, 2.517,20.56,1.942, 2.447,20.56,1.942
  50 BLOCK,2, 5,3,3, 7,5,7  $CASE NODES
  51 2.447,20.56,,463, 2.517,20.56,,463, 2.517,45,,463, 2.447,45,,463/
  52 2.447,20.56,1.942, 2.517,20.56,1.942, 2.517,45,1.942, 2.447,45,1.942
  53 BLOCK,2, 5,1,7, 7,3,9  $CASE NODES
  54 2.447,0,1.942, 2.517,0,1.942, 2.517,20.56,1.942, 2.447,20.56,1.942/
  55 2.447,0,2.485, 2.517,0,2.485, 2.517,20.56,2.485, 2.447,20.56,2.485
  56 BLOCK,2, 5,3,7, 7,5,9  $CASE NODES
  57 2.447,20.56,1.942, 2.517,20.56,1.942, 2.517,45,1.942, 2.447,45,1.942/
  58 2.447,20.56,2.485, 2.517,20.56,2.485, 2.517,45,2.485, 2.447,45,2.485
  59 END,GRID
  60 KLOOP,4
  61 ILOOP,2
```

```
 63 BRICKH,1, 1,1,1     $ PROPELLANT ELEMENTS
 64 JEND
 65 IEND
 66 KEND
 67 KLOOP,4
 68 JLOOP,2
 69 BRICK,2, 5,1,1     $ CASE ELEMENTS
 70 JEND
 71 KEND
 72 KLOOP,4
 73 ILOOP,3
 74 BC,SLOPE,1,1,1, 5     $  0 DEGREE FACE
 75 BC,SLOPE,1,3,1, 2     $ 45 DEGREE FACE
 76 IEND
 77 KEND
 78 JLOOP,2
 79 BC,SLOPE,5,1,1, 6     $ END OF CASE
 80 JEND
 81 KLOOP,4
 82 JLOOP,2
 83 BC,PRESSURE, 1,1,1, 4,1.425E3     $ 1425 PSI PRESSURE
 84 JEND
 85 KEND
 86 BC,UZ,1,1,1, 0.,-2.184E-2
 87 BC,UZ,1,2,1, 0.,-2.184E-2
 88 BC,UZ,1,3,1, 0.,-2.184E-2
 89 BC,UZ,1,4,1, 0.,-2.184E-2
 90 BC,UZ,1,5,1, 0.,-2.184E-2
 91 BC,UZ,2,1,1, 0.,-1.638E-2
 92 BC,UZ,2,3,1, 0.,-1.638E-2
 93 BC,UZ,2,5,1, 0.,-1.638E-2
 94 BC,UZ,3,1,1, 0.,-1.092E-2
 95 BC,UZ,3,2,1, 0.,-1.092E-2
 96 BC,UZ,3,3,1, 0.,-1.092E-2
 97 BC,UZ,3,4,1, 0.,-1.092E-2
 98 BC,UZ,3,5,1, 0.,-1.092E-2
 99 BC,UZ,4,1,1, 0.,-0.546E-2
100 BC,UZ,4,3,1, 0.,-0.546E-2
101 BC,UZ,4,5,1, 0.,-0.546E-2
102 BC,UZ,5,1,1, 0.0.
103 BC,UZ,5,2,1, 0.0.
104 BC,UZ,5,3,1, 0.0.
105 BC,UZ,5,4,1, 0.0.
106 BC,UZ,5,5,1, 0.0.
107 BC,UZ,1,1,9, 0.,-.215E-2
108 BC,UZ,1,2,9, 0.,-.323E-2
109 BC,UZ,1,3,9, 0.,-.462E-2
110 BC,UZ,1,4,9, 0.,-.462E-2
111 BC,UZ,1,5,9, 0.,-.462E-2
112 BC,UZ,2,1,9, 0.,-.208E-2
113 BC,UZ,2,3,9, 0.,-.304E-2
114 BC,UZ,2,5,9, 0.,-.304E-2
115 BC,UZ,3,1,9, 0.,-.184E-2
116 BC,UZ,3,2,9, 0.,-.238E-2
117 BC,UZ,3,3,9, 0.,-.341E-2
118 BC,UZ,3,4,9, 0.,-.341E-2
119 BC,UZ,3,5,9, 0.,-.341E-2
120 BC,UZ,4,1,9, 0.,-.108E-2
121 BC,UZ,4,3,9, 0.,-.238E-2
122 BC,UZ,4,5,9, 0.,-.238E-2
123 BC,UZ,5,1,9, 0.,-.153E-2
124 BC,UZ,5,2,9, 0.,-.153E-2
125 BC,UZ,5,3,9, 0.,-.153E-2
126 BC,UZ,5,4,9, 0.,-.153E-2
127 BC,UZ,5,5,9, 0.,-.153E-2
128 END ELEMENTS
```

```
128 END,ELEMENTS
129 SOLVE
130 POST
131 BLOCK
132 OPTION,2
133 END,POST
134 REZONE,1,1,3, 3,3,5
135 REFINE,GRADS,1,1,3, 2,2,2
136 BCR,REZONE,1,1,3, 2,2,2,2,2,2, 1,1,3
137 END,CONTROL
138 SOLVE
139 POST
140 BLOCK
141 OPTION,2
142 END,POST
143 REZONE,1,1,3, 3,3,5
144 REFINE,GRADS,1,1,3, 2,2,2
145 BCR,REZONE,1,1,3, 2,2,2,2,2,2, 1,1,3
146 END,CONTROL
147 SOLVE
148 POST
149 BLOCK
150 OPTION,2
151 END,POST
152 STOP

TIME IN FFLOSB     =      1.132 SECONDS
```

ELEMENT NO.	TYPE	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
1	BRICKH MATERIAL NO. 1	1	1	1	.940E+00	0.	0.	2	3	1	.128E+01	.463E+00	0.
		3	1	1	.169E+01	0.	0.	1	2	1	.925E+00	.168E+00	0.
		3	3	1	.159E+01	.595E+00	0.	1	1	2	.940E+00	0.	.232E+00
		1	3	1	.888E+00	.338E+00	0.	3	1	2	.169E+01	0.	.232E+00
		1	1	3	.940E+00	0.	.463E+00	3	3	2	.159E+01	.595E+00	.232E+00
		3	1	3	.169E+01	0.	.463E+00	1	3	2	.888E+00	.338E+00	.232E+00
		3	3	3	.159E+01	.595E+00	.463E+00	2	1	3	.188E+01	0.	.463E+00
		1	3	3	.888E+00	.338E+00	.463E+00	8	2	3	.167E+01	.382E+00	.463E+00
		2	1	1	.132E+01	0.	0.	2	3	3	.123E+01	.463E+00	.463E+00
		3	2	1	.167E+01	.382E+00	0.	1	2	3	.925E+00	.168E+00	.463E+00
2	BRICKH MATERIAL NO. 1	1	3	1	.888E+00	.338E+00	0.	2	5	1	.981E+00	.981E+00	0.
		3	3	1	.159E+01	.595E+00	0.	1	4	1	.791E+00	.587E+00	0.
		3	5	1	.120E+01	.120E+01	0.	1	3	2	.888E+00	.388E+00	.232E+00
		1	5	1	.869E+00	.869E+00	0.	3	3	2	.159E+01	.595E+00	.232E+00
		1	3	3	.888E+00	.338E+00	.463E+00	3	5	2	.120E+01	.120E+01	.232E+00
		3	3	3	.159E+01	.595E+00	.463E+00	1	5	2	.869E+00	.869E+00	.232E+00
		3	5	3	.120E+01	.120E+01	.463E+00	2	3	3	.123E+01	.463E+00	.463E+00
		1	5	3	.869E+00	.869E+00	.463E+00	3	4	3	.142E+01	.913E+00	.463E+00
		2	3	1	.123E+01	.463E+00	0.	2	5	3	.981E+00	.981E+00	.463E+00
		3	4	1	.142E+01	.913E+00	0.	1	4	8	.791E+00	.987E+00	.463E+00
3	BRICKH MATERIAL NO. 1	3	1	1	.189E+01	0.	0.	4	3	1	.194E+01	.728E+00	0.
		5	1	1	.245E+01	0.	0.	3	2	1	.167E+01	.382E+00	0.
		5	3	1	.229E+01	.899E+00	0.	3	1	2	.189E+01	0.	.232E+00
		3	3	1	.159E+01	.595E+00	0.	5	1	2	.245E+01	0.	.232E+00
		3	1	3	.189E+01	0.	.463E+00	5	3	2	.229E+01	.899E+00	.232E+00
		5	1	3	.245E+01	0.	.463E+00	3	3	2	.159E+01	.595E+00	.232E+00
		5	3	3	.229E+01	.899E+00	.463E+00	4	1	3	.207E+01	0.	.463E+00
		3	3	3	.159E+01	.595E+00	.463E+00	5	2	3	.241E+01	.437E+00	.463E+00
		4	1	1	.207E+01	0.	0.	4	3	3	.194E+01	.728E+00	.463E+00
		5	2	1	.241E+01	.437E+00	0.	3	2	3	.167E+01	.382E+00	.463E+00
4	BRICKH MATERIAL NO. 1	3	3	1	.159E+01	.595E+00	0.	4	5	1	.146E+01	.146E+01	0.
		5	3	1	.229E+01	.899E+00	0.	3	4	1	.142E+01	.913E+00	0.
		5	5	1	.173E+01	.173E+01	0.	3	3	2	.159E+01	.595E+00	.232E+00
		3	5	1	.120E+01	.120E+01	0.	5	3	2	.229E+01	.899E+00	.232E+00
		3	3	3	.159E+01	.595E+00	.463E+00	5	5	2	.173E+01	.173E+01	.232E+00
		5	3	3	.229E+01	.899E+00	.463E+00	3	5	2	.120E+01	.120E+01	.232E+00
		5	5	3	.173E+01	.173E+01	.463E+00	4	3	3	.194E+01	.728E+00	.463E+00
		3	5	3	.120E+01	.120E+01	.463E+00	5	4	3	.206E+01	.132E+01	.463E+00
		4	3	1	.194E+01	.728E+00	0.	4	5	3	.146E+01	.146E+01	.463E+00
		5	4	1	.206E+01	.132E+01	0.	3	4	3	.142E+01	.913E+00	.463E+00
5	BRICKH MATERIAL NO. 1	1	1	3	.940E+00	0.	.463E+00	2	3	3	.128E+01	.463E+00	.463E+00
		3	1	3	.169E+01	0.	.463E+00	1	2	3	.925E+00	.168E+00	.463E+00
		3	3	3	.159E+01	.595E+00	.463E+00	1	1	4	.127E+01	0.	.844E+00
		1	3	3	.888E+00	.338E+00	.463E+00	3	1	4	.186E+01	0.	.838E+00
		1	1	5	.169E+01	0.	.118E+01	3	3	4	.159E+01	.595E+00	.833E+00
		3	1	5	.202E+01	0.	.118E+01	1	3	4	.888E+00	.388E+00	.833E+00
		3	3	5	.159E+01	.595E+00	.120E+01	2	1	5	.181E+01	0.	.117E+01
		1	3	5	.888E+00	.338E+00	.120E+01	3	2	5	.186E+01	.348E+00	.119E+01
		2	1	3	.132E+01	0.	.463E+00	2	3	5	.128E+01	.462E+00	.120E+01
		3	2	3	.167E+01	.382E+00	.463E+00	1	2	5	.131E+01	.266E+00	.118E+01

ELEMENT NO.	TYPE	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
6	BRICKH MATERIAL NO. 1	1	3	3	.888E+00	.338E+00	.463E+00	2	5	3	.931E+00	.931E+00	.463E+00
		3	3	3	.159E+01	.595E+00	.463E+00	1	4	3	.791E+00	.587E+00	.463E+00
		3	5	3	.120E+01	.120E+01	.463E+00	1	3	4	.888E+00	.338E+00	.833E+00
		1	5	3	.665E+00	.665E+00	.463E+00	3	3	4	.159E+01	.595E+00	.833E+00
		1	3	5	.888E+00	.338E+00	.120E+01	3	5	4	.120E+01	.120E+01	.833E+00
		3	3	5	.159E+01	.595E+00	.120E+01	1	5	4	.665E+00	.665E+00	.833E+00
		3	5	5	.120E+01	.120E+01	.120E+01	2	3	5	.123E+01	.462E+00	.120E+01
		1	5	5	.665E+00	.665E+00	.120E+01	3	4	5	.142E+01	.913E+00	.120E+01
		2	3	3	.123E+01	.463E+00	.463E+00	2	5	5	.931E+00	.931E+00	.120E+01
		3	4	3	.142E+01	.913E+00	.463E+00	1	4	5	.791E+00	.587E+00	.120E+01
7	BRICKH MATERIAL NO. 1	3	1	3	.169E+01	0.	.463E+00	4	3	3	.194E+01	.728E+00	.463E+00
		5	1	3	.245E+01	0.	.463E+00	3	2	3	.167E+01	.382E+00	.463E+00
		5	3	3	.229E+01	.859E+00	.463E+00	3	1	4	.186E+01	0.	.833E+00
		3	3	3	.159E+01	.595E+00	.463E+00	5	1	4	.245E+01	0.	.833E+00
		3	1	5	.282E+01	0.	.116E+01	5	3	4	.229E+01	.859E+00	.833E+00
		5	1	5	.245E+01	0.	.120E+01	3	3	4	.199E+01	.989E+00	.833E+00
		5	3	5	.229E+01	.859E+00	.120E+01	4	1	5	.228E+01	0.	.119E+01
		3	3	5	.159E+01	.595E+00	.120E+01	5	2	5	.241E+01	.487E+00	.120E+01
		4	1	3	.287E+01	0.	.463E+00	4	3	5	.194E+01	.728E+00	.120E+01
		5	2	3	.241E+01	.437E+00	.463E+00	3	2	5	.186E+01	.340E+00	.119E+01
8	BRICKH MATERIAL NO. 1	3	3	3	.199E+01	.999E+00	.463E+00	4	9	3	.148E+01	.148E+01	.463E+00
		5	3	3	.229E+01	.859E+00	.463E+00	3	4	3	.142E+01	.913E+00	.463E+00
		5	5	3	.173E+01	.173E+01	.463E+00	3	3	4	.159E+01	.989E+00	.833E+00
		3	5	3	.120E+01	.120E+01	.463E+00	5	3	4	.229E+01	.859E+00	.833E+00
		3	3	5	.159E+01	.595E+00	.120E+01	5	5	4	.173E+01	.173E+01	.833E+00
		5	3	5	.229E+01	.859E+00	.120E+01	3	5	4	.120E+01	.120E+01	.833E+00
		5	5	5	.173E+01	.173E+01	.120E+01	4	3	5	.194E+01	.728E+00	.120E+01
		3	5	5	.120E+01	.120E+01	.120E+01	5	4	5	.206E+01	.182E+01	.120E+01
		4	3	3	.194E+01	.728E+00	.463E+00	4	5	5	.148E+01	.148E+01	.120E+01
		5	4	3	.206E+01	.132E+01	.463E+00	3	4	5	.142E+01	.913E+00	.120E+01
9	BRICKH MATERIAL NO. 1	1	1	5	.160E+01	0.	.116E+01	2	3	5	.123E+01	.462E+00	.120E+01
		3	1	5	.202E+01	0.	.116E+01	1	2	5	.191E+01	.200E+00	.116E+01
		3	3	5	.159E+01	.595E+00	.120E+01	1	1	6	.190E+01	0.	.150E+01
		1	3	5	.888E+00	.338E+00	.120E+01	3	1	6	.217E+01	0.	.154E+01
		1	1	7	.215E+01	0.	.194E+01	3	3	6	.159E+01	.595E+00	.157E+01
		3	1	7	.230E+01	0.	.194E+01	1	3	6	.888E+00	.388E+00	.157E+01
		3	3	7	.159E+01	.595E+00	.194E+01	2	1	7	.222E+01	0.	.194E+01
		1	3	7	.888E+00	.338E+00	.194E+01	3	2	7	.204E+01	.304E+00	.194E+01
		2	1	5	.181E+01	0.	.117E+01	2	3	7	.128E+01	.463E+00	.194E+01
		3	2	5	.186E+01	.340E+00	.119E+01	1	2	7	.160E+01	.369E+00	.194E+01
10	BRICKH MATERIAL NO. 1	1	3	5	.888E+00	.338E+00	.120E+01	2	5	5	.931E+00	.931E+00	.120E+01
		3	3	5	.159E+01	.595E+00	.120E+01	1	4	5	.791E+00	.587E+00	.120E+01
		3	5	5	.120E+01	.120E+01	.120E+01	1	3	6	.888E+00	.388E+00	.157E+01
		1	5	5	.665E+00	.665E+00	.120E+01	3	3	6	.159E+01	.595E+00	.157E+01
		1	3	7	.888E+00	.338E+00	.194E+01	3	5	6	.120E+01	.120E+01	.157E+01
		3	3	7	.159E+01	.595E+00	.194E+01	1	5	6	.665E+00	.665E+00	.157E+01
		3	5	7	.120E+01	.120E+01	.194E+01	2	3	7	.123E+01	.463E+00	.194E+01
		1	5	7	.665E+00	.665E+00	.194E+01	3	4	7	.142E+01	.913E+00	.194E+01
		2	3	5	.123E+01	.462E+00	.120E+01	2	5	7	.931E+00	.931E+00	.194E+01
		3	4	5	.142E+01	.913E+00	.120E+01	1	4	7	.791E+00	.587E+00	.194E+01

ELEMENT NO.	TYPE	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
11	BRICKH MATERIAL NO. 1	3	1	5	.282E+01	0.	.118E+01	4	3	5	.194E+01	.728E+00	.128E+01
		5	1	5	.245E+01	0.	.128E+01	3	2	5	.186E+01	.348E+00	.119E+01
		5	3	5	.229E+01	.859E+00	.128E+01	3	1	6	.217E+01	0.	.154E+01
		3	3	5	.159E+01	.595E+00	.128E+01	5	1	6	.245E+01	0.	.157E+01
		3	1	7	.238E+01	0.	.194E+01	5	3	6	.229E+01	.859E+00	.197E+01
		5	1	7	.245E+01	0.	.194E+01	3	3	6	.159E+01	.595E+00	.157E+01
		5	3	7	.229E+01	.859E+00	.194E+01	4	1	7	.287E+01	0.	.194E+01
		3	3	7	.159E+01	.595E+00	.194E+01	5	2	7	.241E+01	.487E+00	.194E+01
		4	1	5	.223E+01	0.	.119E+01	4	3	7	.194E+01	.728E+00	.194E+01
		5	2	5	.241E+01	.437E+00	.128E+01	3	2	7	.204E+01	.384E+00	.194E+01
12	BRICKH MATERIAL NO. 1	3	3	5	.159E+01	.595E+00	.128E+01	4	5	5	.146E+01	.146E+01	.128E+01
		5	3	5	.229E+01	.859E+00	.128E+01	3	4	5	.142E+01	.913E+00	.128E+01
		5	5	5	.173E+01	.173E+01	.128E+01	3	3	6	.159E+01	.595E+00	.157E+01
		3	5	5	.128E+01	.128E+01	.128E+01	5	3	6	.229E+01	.859E+00	.197E+01
		3	3	7	.159E+01	.595E+00	.194E+01	5	5	6	.173E+01	.173E+01	.157E+01
		5	3	7	.229E+01	.859E+00	.194E+01	3	5	6	.128E+01	.128E+01	.157E+01
		5	5	7	.173E+01	.173E+01	.194E+01	4	3	7	.194E+01	.728E+00	.194E+01
		3	5	7	.128E+01	.128E+01	.194E+01	5	4	7	.206E+01	.182E+01	.194E+01
		4	3	5	.194E+01	.728E+00	.128E+01	4	5	7	.146E+01	.146E+01	.194E+01
		5	4	5	.206E+01	.132E+01	.128E+01	3	4	7	.142E+01	.913E+00	.194E+01
13	BRICKH MATERIAL NO. 1	1	1	7	.219E+01	0.	.194E+01	2	3	7	.123E+01	.463E+00	.194E+01
		3	1	7	.238E+01	0.	.194E+01	1	2	7	.168E+01	.365E+00	.194E+01
		3	3	7	.159E+01	.595E+00	.194E+01	1	1	8	.219E+01	0.	.217E+01
		1	3	7	.888E+00	.331E+00	.194E+01	3	1	8	.238E+01	0.	.217E+01
		1	1	9	.215E+01	0.	.241E+01	3	3	8	.159E+01	.595E+00	.217E+01
		3	1	9	.230E+01	0.	.241E+01	1	3	8	.888E+00	.330E+00	.217E+01
		3	3	9	.159E+01	.595E+00	.241E+01	2	1	9	.222E+01	0.	.241E+01
		1	3	9	.888E+00	.330E+00	.241E+01	3	2	9	.204E+01	.384E+00	.241E+01
		2	1	7	.222E+01	0.	.194E+01	2	3	9	.123E+01	.463E+00	.241E+01
		3	2	7	.204E+01	.384E+00	.194E+01	1	2	9	.168E+01	.365E+00	.241E+01
14	BRICKH MATERIAL NO. 1	1	3	7	.888E+00	.338E+00	.194E+01	2	5	7	.931E+00	.931E+00	.194E+01
		3	9	7	.199E+01	.999E+00	.194E+01	1	4	7	.791E+00	.507E+00	.194E+01
		3	5	7	.128E+01	.128E+01	.194E+01	1	3	8	.888E+00	.388E+00	.217E+01
		1	5	7	.665E+00	.665E+00	.194E+01	3	3	8	.159E+01	.595E+00	.217E+01
		1	3	9	.888E+00	.338E+00	.241E+01	3	5	8	.128E+01	.128E+01	.217E+01
		3	3	9	.159E+01	.595E+00	.241E+01	1	5	8	.665E+00	.665E+00	.217E+01
		3	5	9	.128E+01	.128E+01	.241E+01	2	3	9	.128E+01	.463E+00	.241E+01
		1	9	9	.885E+00	.885E+00	.241E+01	3	4	9	.142E+01	.913E+00	.241E+01
		2	3	7	.123E+01	.463E+00	.194E+01	2	5	9	.931E+00	.931E+00	.241E+01
		3	4	7	.142E+01	.913E+00	.194E+01	1	4	9	.791E+00	.507E+00	.241E+01
15	BRICKH MATERIAL NO. 1	3	1	7	.238E+01	0.	.194E+01	4	3	7	.194E+01	.728E+00	.194E+01
		5	1	7	.245E+01	0.	.194E+01	3	2	7	.204E+01	.384E+00	.194E+01
		5	3	7	.229E+01	.859E+00	.194E+01	3	1	8	.230E+01	0.	.217E+01
		3	3	7	.159E+01	.595E+00	.194E+01	5	1	8	.245E+01	0.	.217E+01
		3	1	9	.230E+01	0.	.241E+01	5	3	8	.229E+01	.859E+00	.217E+01
		5	1	9	.245E+01	0.	.241E+01	3	3	8	.159E+01	.595E+00	.217E+01
		5	3	9	.229E+01	.859E+00	.241E+01	4	1	9	.287E+01	0.	.241E+01
		3	3	9	.159E+01	.595E+00	.241E+01	5	2	9	.241E+01	.487E+00	.241E+01
		4	1	7	.237E+01	0.	.194E+01	4	3	9	.194E+01	.728E+00	.241E+01
		5	2	7	.241E+01	.437E+00	.194E+01	3	2	9	.204E+01	.384E+00	.241E+01

ELEMENT NO.	TYPE	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
16	BRICKM MATERIAL NO. 1	3	3	7	.159E+01	.595E+00	.194E+01	4	5	7	.146E+01	.146E+01	.194E+01
		5	3	7	.229E+01	.859E+00	.194E+01	3	4	7	.142E+01	.913E+00	.194E+01
		5	5	7	.173E+01	.173E+01	.194E+01	3	3	8	.159E+01	.595E+00	.217E+01
		3	5	7	.120E+01	.120E+01	.194E+01	5	3	8	.229E+01	.859E+00	.217E+01
		3	3	9	.159E+01	.595E+00	.241E+01	5	5	8	.173E+01	.173E+01	.217E+01
		5	3	9	.229E+01	.859E+00	.241E+01	3	5	8	.120E+01	.120E+01	.217E+01
		5	5	9	.173E+01	.173E+01	.241E+01	4	3	9	.194E+01	.728E+00	.241E+01
		3	5	9	.120E+01	.120E+01	.241E+01	5	4	9	.206E+01	.182E+01	.241E+01
		4	3	7	.194E+01	.728E+00	.194E+01	4	5	9	.146E+01	.146E+01	.241E+01
		5	4	7	.206E+01	.132E+01	.194E+01	3	4	9	.142E+01	.913E+00	.241E+01
17	BRICK MATERIAL NO. 2	5	1	1	.245E+01	0.	0.	6	3	1	.232E+01	.872E+00	0.
		7	1	1	.252E+01	0.	0.	5	2	1	.241E+01	.487E+00	0.
		7	3	1	.236E+01	.884E+00	0.	5	1	2	.245E+01	0.	.232E+00
		5	3	1	.229E+01	.859E+00	0.	7	1	2	.252E+01	0.	.232E+00
		5	1	3	.245E+01	0.	.463E+00	7	3	2	.236E+01	.884E+00	.232E+00
		7	1	3	.252E+01	0.	.463E+00	5	3	2	.229E+01	.859E+00	.232E+00
		7	3	3	.236E+01	.884E+00	.463E+00	6	1	3	.248E+01	0.	.463E+00
		5	3	3	.229E+01	.859E+00	.463E+00	7	2	3	.248E+01	.449E+00	.463E+00
		6	1	1	.248E+01	0.	0.	6	3	3	.232E+01	.872E+00	.463E+00
		7	2	1	.248E+01	.449E+00	0.	5	2	3	.241E+01	.487E+00	.463E+00
18	BRICK MATERIAL NO. 2	5	3	1	.229E+01	.859E+00	0.	6	5	1	.176E+01	.176E+01	0.
		7	3	1	.236E+01	.884E+00	0.	5	4	1	.206E+01	.182E+01	0.
		7	5	1	.176E+01	.176E+01	0.	5	3	2	.229E+01	.859E+00	.232E+00
		5	5	1	.173E+01	.173E+01	0.	7	3	2	.236E+01	.884E+00	.232E+00
		5	3	3	.229E+01	.859E+00	.463E+00	7	5	2	.176E+01	.176E+01	.232E+00
		7	3	3	.236E+01	.884E+00	.463E+00	5	5	2	.173E+01	.173E+01	.232E+00
		7	5	3	.176E+01	.176E+01	.463E+00	6	3	3	.232E+01	.872E+00	.463E+00
		5	5	3	.173E+01	.173E+01	.463E+00	7	4	3	.212E+01	.186E+01	.463E+00
		6	3	1	.232E+01	.872E+00	0.	6	5	3	.176E+01	.176E+01	.463E+00
		7	4	1	.212E+01	.136E+01	0.	5	4	3	.206E+01	.182E+01	.463E+00
19	BRICK MATERIAL NO. 2	5	1	3	.245E+01	0.	.463E+00	6	3	3	.232E+01	.872E+00	.463E+00
		7	1	3	.252E+01	0.	.463E+00	5	2	3	.241E+01	.487E+00	.463E+00
		7	3	3	.236E+01	.884E+00	.463E+00	5	1	4	.245E+01	0.	.833E+00
		5	3	3	.229E+01	.859E+00	.463E+00	7	1	4	.252E+01	0.	.833E+00
		5	1	5	.245E+01	0.	.120E+01	7	3	4	.236E+01	.884E+00	.833E+00
		7	1	5	.252E+01	0.	.120E+01	5	3	4	.229E+01	.859E+00	.833E+00
		7	3	5	.236E+01	.884E+00	.120E+01	6	1	5	.248E+01	0.	.120E+01
		5	3	5	.229E+01	.859E+00	.120E+01	7	2	5	.248E+01	.449E+00	.120E+01
		6	1	3	.248E+01	0.	.463E+00	6	3	5	.232E+01	.872E+00	.120E+01
		7	2	3	.248E+01	.449E+00	.463E+00	5	2	5	.241E+01	.487E+00	.120E+01
20	BRICK MATERIAL NO. 2	5	3	3	.229E+01	.859E+00	.463E+00	6	5	3	.176E+01	.176E+01	.463E+00
		7	3	3	.236E+01	.884E+00	.463E+00	5	4	3	.206E+01	.182E+01	.463E+00
		7	5	3	.176E+01	.176E+01	.463E+00	5	3	4	.229E+01	.859E+00	.833E+00
		5	5	3	.173E+01	.173E+01	.463E+00	7	3	4	.236E+01	.884E+00	.833E+00
		5	3	5	.229E+01	.859E+00	.120E+01	7	5	4	.176E+01	.176E+01	.833E+00
		7	3	5	.236E+01	.884E+00	.120E+01	5	5	4	.173E+01	.173E+01	.833E+00
		7	5	5	.176E+01	.176E+01	.120E+01	6	3	5	.232E+01	.872E+00	.120E+01
		5	5	5	.173E+01	.173E+01	.120E+01	7	4	5	.212E+01	.186E+01	.120E+01
		6	3	3	.232E+01	.872E+00	.463E+00	6	5	5	.176E+01	.176E+01	.120E+01
		7	4	3	.212E+01	.136E+01	.463E+00	5	4	5	.206E+01	.132E+01	.120E+01

ELEMENT NO.	TYPE		NODES I	J	K	NODAL POINT COORDINATES X	Y	Z	NODES I	J	K	NODAL POINT COORDINATES X	Y	Z
21	BRICK	MATERIAL NO. 2	5	1	5	.245E+01	0.	.120E+01	6	3	5	.232E+01	.872E+00	.120E+01
			7	1	5	.252E+01	0.	.120E+01	5	2	5	.241E+01	.487E+00	.120E+01
			7	3	5	.236E+01	.884E+00	.120E+01	5	1	6	.245E+01	0.	.157E+01
			5	3	5	.229E+01	.859E+00	.120E+01	7	1	6	.252E+01	0.	.157E+01
			5	1	7	.245E+01	0.	.194E+01	7	3	6	.286E+01	.884E+00	.157E+01
			7	1	7	.252E+01	0.	.194E+01	5	3	6	.229E+01	.859E+00	.157E+01
			7	3	7	.236E+01	.884E+00	.194E+01	6	1	7	.240E+01	0.	.194E+01
			5	3	7	.229E+01	.859E+00	.194E+01	7	2	7	.240E+01	.449E+00	.194E+01
			6	1	5	.240E+01	0.	.120E+01	6	3	7	.282E+01	.872E+00	.194E+01
			7	2	5	.240E+01	.449E+00	.120E+01	5	2	7	.241E+01	.487E+00	.194E+01
22	BRICK	MATERIAL NO. 2	5	3	5	.229E+01	.859E+00	.120E+01	6	5	5	.176E+01	.176E+01	.120E+01
			7	3	5	.236E+01	.884E+00	.120E+01	5	4	5	.206E+01	.182E+01	.120E+01
			7	5	5	.178E+01	.178E+01	.120E+01	5	3	6	.229E+01	.859E+00	.157E+01
			5	5	5	.173E+01	.173E+01	.120E+01	7	3	6	.236E+01	.884E+00	.157E+01
			5	3	7	.229E+01	.859E+00	.194E+01	7	5	6	.178E+01	.178E+01	.157E+01
			7	3	7	.236E+01	.884E+00	.194E+01	5	5	6	.178E+01	.173E+01	.157E+01
			7	5	7	.178E+01	.178E+01	.194E+01	6	3	7	.282E+01	.872E+00	.194E+01
			5	5	7	.173E+01	.173E+01	.194E+01	7	4	7	.212E+01	.136E+01	.194E+01
			6	3	5	.232E+01	.872E+00	.120E+01	6	5	7	.176E+01	.176E+01	.194E+01
			7	4	5	.212E+01	.136E+01	.120E+01	5	4	7	.206E+01	.182E+01	.194E+01
23	BRICK	MATERIAL NO. 2	5	1	7	.245E+01	0.	.194E+01	6	3	7	.282E+01	.872E+00	.194E+01
			7	1	7	.252E+01	0.	.194E+01	5	2	7	.241E+01	.487E+00	.194E+01
			7	3	7	.236E+01	.884E+00	.194E+01	5	1	8	.245E+01	0.	.217E+01
			5	3	7	.229E+01	.859E+00	.194E+01	7	1	8	.252E+01	0.	.217E+01
			5	1	9	.245E+01	0.	.241E+01	7	3	8	.236E+01	.884E+00	.217E+01
			7	1	9	.252E+01	0.	.241E+01	5	3	8	.229E+01	.859E+00	.217E+01
			7	3	9	.236E+01	.884E+00	.241E+01	6	1	9	.240E+01	0.	.241E+01
			5	3	9	.229E+01	.859E+00	.241E+01	7	2	9	.240E+01	.449E+00	.241E+01
			6	1	7	.240E+01	0.	.194E+01	6	3	9	.282E+01	.872E+00	.241E+01
			7	2	7	.240E+01	.449E+00	.194E+01	5	2	9	.241E+01	.487E+00	.241E+01
24	BRICK	MATERIAL NO. 2	5	3	7	.229E+01	.859E+00	.194E+01	6	5	7	.176E+01	.176E+01	.194E+01
			7	3	7	.236E+01	.884E+00	.194E+01	5	4	7	.206E+01	.182E+01	.194E+01
			7	5	7	.178E+01	.178E+01	.194E+01	5	3	8	.229E+01	.859E+00	.217E+01
			5	5	7	.173E+01	.173E+01	.194E+01	7	3	8	.236E+01	.884E+00	.217E+01
			5	3	9	.229E+01	.859E+00	.241E+01	7	5	8	.178E+01	.178E+01	.217E+01
			7	3	9	.236E+01	.884E+00	.241E+01	5	5	8	.178E+01	.173E+01	.217E+01
			7	5	9	.178E+01	.178E+01	.241E+01	6	3	9	.232E+01	.872E+00	.241E+01
			5	5	9	.173E+01	.173E+01	.241E+01	7	4	9	.212E+01	.136E+01	.241E+01
			6	3	7	.232E+01	.872E+00	.194E+01	6	5	9	.176E+01	.176E+01	.241E+01
			7	4	7	.212E+01	.136E+01	.194E+01	5	4	9	.206E+01	.182E+01	.241E+01

BOUNDARY CONDITIONS,

ELEMENT NUMBER	ELEMENT I	J	K	TYPE	NODE OR FACE	VALUE			
1	1	1	1	UZ	3	-.1092E-01			
				UZ	10	-.1092E-01			
				UZ	2	-.1092E-01			
				UZ	11	-.1638E-01			
				UZ	9	-.1638E-01			
				UZ	4	-.2184E-01			
				UZ	12	-.2184E-01			
				UZ	1	-.2184E-01			
				PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	5	0.			
2	1	3	1	UZ	3	-.1092E-01			
				UZ	10	-.1092E-01			
				UZ	11	-.1638E-01			
				UZ	4	-.2184E-01			
				UZ	12	-.2184E-01			
				PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	2	0.			
3	3	1	1	UZ	3	0.			
				UZ	10	0.			
				UZ	2	0.			
				UZ	11	-.5460E-02			
				UZ	9	-.5460E-02			
				SLOPE	5	0.			
4	3	3	1	UZ	3	0.			
				UZ	10	0.			
				UZ	11	-.5460E-02			
				SLOPE	2	0.			
5	1	1	3	PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	5	0.			
6	1	3	3	PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	2	0.			
7	3	1	3	SLOPE	5	0.			
8	3	3	3	SLOPE	2	0.			
9	1	1	5	PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	5	0.			
10	1	3	5	PRESSURE	4	.1425E+04	.1425E+04	.1425E+04	.1425E+04
				SLOPE	2	0.			
11	3	1	5	SLOPE	5	0.			
12	3	3	5	SLOPE	2	0.			
13	1	1	7	UZ	7	-.3418E-02			
				UZ	10	-.2388E-02			
				UZ	6	-.1648E-02			

BOUNDARY CONDITIONS,

ELEMENT NUMBER	ELEMENT I	J	K	TYPE	NODE OR FACE	VALUE			
13	1	1	7	UZ	19	-.3840E-02			
				UZ	17	-.2880E-02			
				UZ	8	-.4620E-02			
				UZ	20	-.3950E-02			
				UZ	5	-.2150E-02			
				PRESSURE	4	.1429E+04	.1429E+04	.1429E+04	.1429E+04
				SLOPE	5	0.			
14	1	3	7	UZ	7	-.3410E-02			
				UZ	18	-.3410E-02			
				UZ	19	-.3840E-02			
				UZ	8	-.4620E-02			
				UZ	20	-.4620E-02			
				PRESSURE	4	.1429E+04	.1429E+04	.1429E+04	.1429E+04
				SLOPE	2	0.			
15	3	1	7	UZ	7	-.1530E-02			
				UZ	18	-.1530E-02			
				UZ	6	-.1530E-02			
				UZ	19	-.2300E-02			
				UZ	17	-.1680E-02			
				SLOPE	5	0.			
16	3	3	7	UZ	7	-.1530E-02			
				UZ	18	-.1530E-02			
				UZ	19	-.2300E-02			
				SLOPE	2	0.			
17	5	1	1	SLOPE	6	0.			
				SLOPE	5	0.			
18	5	3	1	SLOPE	6	0.			
				SLOPE	2	0.			
19	5	1	3	SLOPE	5	0.			
20	5	3	3	SLOPE	2	0.			
21	5	1	5	SLOPE	5	0.			
22	5	3	5	SLOPE	2	0.			
23	5	1	7	SLOPE	5	0.			
24	5	3	7	SLOPE	2	0.			

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	1	3	41	-.798E+03	1	1	5	73	-.798E+03	1	1	1	5	-.888E+03
SIGMA MIN	3	1	1	20	-.168E+04	1	1	7	116	-.167E+04	3	3	1	30	-.166E+04
TAU MAX	1	1	3	41	.315E+03	1	1	5	73	.305E+03	1	1	3	37	.289E+03
EPS MAX	1	1	1	5	.246E-01	1	1	3	37	.246E-01	1	1	1	4	.239E-01
EPS MIN	1	1	3	41	-.327E-01	1	1	5	73	-.318E-01	1	1	3	37	-.226E-01
GAMMA MAX	1	1	3	41	.497E-01	1	1	5	73	.481E-01	1	1	3	37	.472E-01
MATERIAL NUMBER = 2															
SIGMA MAX	5	3	7	209	.553E+05	5	3	7	210	.548E+05	5	3	1	155	.585E+05
SIGMA MIN	5	1	7	203	-.143E+05	5	1	7	206	-.129E+05	5	1	7	199	-.124E+05
TAU MAX	5	3	1	154	.291E+05	5	3	1	157	.298E+05	5	3	7	208	.208E+05
EPS MAX	5	3	1	156	.179E-02	5	3	1	154	.178E-02	5	3	1	155	.178E-02
EPS MIN	5	1	7	203	-.833E-03	5	1	7	199	-.805E-03	5	3	7	212	-.798E-03
GAMMA MAX	5	3	1	154	.252E-02	5	3	1	157	.251E-02	5	3	7	208	.249E-02

TIME IN POST = 3.099 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 16

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 15

COARSE GRID ELEMENT = 5

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	30101	.960E+00	0.	.463E+00	11	30302	.123E+01	.463E+00	.463E+00
2	30103	.169E+01	0.	.463E+00	12	30201	.925E+00	.168E+00	.463E+00
3	30303	.159E+01	.595E+00	.463E+00	13	40101	.127E+01	0.	.844E+00
4	30301	.888E+00	.330E+00	.463E+00	14	40103	.186E+01	0.	.830E+00
5	50101	.160E+01	0.	.116E+01	15	40303	.159E+01	.595E+00	.833E+00
6	50103	.282E+01	0.	.116E+01	16	40301	.888E+00	.330E+00	.833E+00
7	50303	.159E+01	.595E+00	.120E+01	17	50102	.181E+01	0.	.117E+01
8	50301	.888E+00	.330E+00	.120E+01	18	50203	.186E+01	.348E+00	.119E+01
9	30102	.132E+01	0.	.463E+00	19	50302	.123E+01	.462E+00	.120E+01
10	30203	.167E+01	.302E+00	.463E+00	20	50201	.131E+01	.266E+00	.118E+01

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	1	5	17	.161E+05	1	3	5	32	.161E+05	3	1	3	38	.184E+05
SIGMA MIN	1	3	5	35	-.258E+05	1	1	5	14	-.146E+05	3	1	3	37	-.898E+04
TAU MAX	1	1	5	14	.315E+03	1	3	5	28	.307E+03	1	1	5	13	.307E+03
EPS MAX	1	1	3	1	.246E-01	1	1	3	4	.227E-01	1	3	3	19	.227E-01
EPS MIN	1	1	5	14	-.327E-01	1	1	5	13	-.293E-01	1	1	3	8	-.293E-01
GAMMA MAX	1	1	5	14	.497E-01	1	1	3	8	.484E-01	1	1	5	13	.484E-01

TIME IN POST = 1.139 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 16

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 15

COARSE GRID ELEMENT = 1

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	30101	.948E+00	0.	.463E+00	11	30302	.111E+01	.201E+00	.463E+00
2	30103	.192E+01	0.	.463E+00	12	30201	.956E+00	.840E-01	.463E+00
3	30303	.138E+01	.235E+00	.463E+00	13	40101	.118E+01	0.	.662E+00
4	30301	.929E+00	.160E+00	.463E+00	14	40103	.144E+01	0.	.659E+00
5	50101	.127E+01	0.	.844E+00	15	40303	.137E+01	.253E+00	.653E+00
6	50103	.157E+01	0.	.841E+00	16	40301	.102E+01	.192E+00	.659E+00
7	50303	.144E+01	.271E+00	.837E+00	17	50102	.142E+01	0.	.843E+00
8	50301	.112E+01	.217E+00	.839E+00	18	50203	.191E+01	.149E+00	.839E+00
9	30102	.113E+01	0.	.463E+00	19	50302	.120E+01	.244E+00	.838E+00
10	30203	.131E+01	.110E+00	.463E+00	20	50201	.120E+01	.121E+00	.842E+00

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	3	3	3	57	.198E+05	3	1	5	51	.113E+05	1	3	3	22	.988E+04
SIGMA MIN	3	3	5	70	-.369E+05	3	3	3	58	-.151E+05	1	3	3	21	-.151E+05
TAU MAX	1	3	5	35	.307E+03	1	3	5	28	.300E+03	1	1	3	8	.300E+03
EPS MAX	1	1	3	7	.268E-01	3	1	3	44	.249E-01	1	1	3	1	.246E-01
EPS MIN	1	3	5	35	-.293E-01	1	1	3	8	-.259E-01	1	1	3	13	-.259E-01
GAMMA MAX	1	3	5	35	.484E-01	1	1	5	13	.473E-01	1	1	3	8	.473E-01

TIME IN POST = 1.142 SECONDS

TIME IN STOP = 86.488 SECONDS

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        NICOM SCOPE 3.4.2 NN SN 48 NXN R.D 14.27
 15.27.28.NN3KP80  FROP     /KP
 15.27.28.IP   00000704 WORDS - FILE INPUT  , DC 88
 15.27.28.NN3KP.T1000.CM200000.L1000.
 15.27.29.7E41K10N05 7200  AJ HACKETT     8N01
 19.27.30.LIMIT(1000)
 19.27.30.ATTACH(TEX30,KPXXXNN,ID=KPXXX,CY=3,MP=1)
 19.27.30.DISPOSE(OUTPUT,*PR=C)
 19.43.20.LOSET(PRESET=ZERO)
 19.43.21.TEX30.
 16.33.12.  NON-FATAL ERROR(S) IN OVERLAY GEN.
 19.04.52.     STOP
 19.04.52.     00.488 CP SECONDS EXECUTION TIME
 19.04.52.EXIT.
 19.04.52.OP   00044992 WORDS - FILE OUTPUT , DC 48
 19.04.53.MS    46592  WORDS  (  344064 MAX USED)
 19.04.53.CPA       93.411 SEC.        84.078 ADJ.
 19.04.53.IO        96.688 SEC.        54.647 ADJ.
 19.04.53.CM     9415.918 KWS.        95.789 ADJ.
 19.04.53.PP      194.494 SEC.     DATE 10/10/77
 19.04.53.EJ  END OF JOB, KP
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LINE   DIRECT LIST OF INPUT DATA

   1 $FINOCYL - STAR TO CYLINDRICAL BORE TRANSITION (II)
   2 SETUP,4,PRESCRIB
   3 ISO,PROPELLANT,1,,7F3,,499,-,019245
   4 ISO,CASE,2,3,E7,,3
   5 END,MATERIALS
   6 BLOCK-C,1, 1,1,1, 5,3,3  $PROPELLANT NODES
   7 .94,0,0, 2.447,0,0, 2.291,,86,0, ,88,,33,0/
   8 .94,0,,463, 2.447,0,,463, 2.291,,86,,463, ,88,,33,,463
   9 10,2.438,,292,0, 12,,913,,223,0, 18,2.430,,292,,463, 20,,913,,223,,463/
  10 22,2.377,,588,0, 24,,933,,112,0, 30,2.377,,588,,463, 32,,933,,112,,463
  11 BLOCK-C,1, 1,3,1, 5,5,3  $PROPELLANT NODES
  12 .88,,33,0, 2.291,,86,0, 1.730,1.730,0, ,665,,665,0/
  13 .88,,33,,463, 2.291,,86,,463, 1.730,1.730,,463, ,663,,665,,463
  14 10,2.150,1.176,0, 12,,752,,559,0, 18,2.150,1.176,,463, 20,,752,,559,,463/
  15 22,1.958,1.457,0, 24,,825,,452,0, 30,1.958,1.457,,463, 32,,825,,452,,463
  16 BLOCK-C,1, 1,1,3, 5,3,7  $PROPELLANT NODES
  17 .94,0,,463, 2.447,0,,463, 2.291,,86,,463, ,88,,33,,463/
  18 2.145,0,1.942, 2.447,0,1.942, 2.291,,86,1.942, ,88,,33,1.942
  19 10,2.430,,292,,463, 12,,913,,223,,463, 13,1.39,0,,963/
  20 18,2.430,,292,1.942, 20,1.403,,33,1.942, 22,2.377,,588,,463/
  21 24,,933,,112,,463, 25,1.79,0,1.363, 30,2.377,,588,1.942/
  22 32,1.89,,33,1.942
  23 BLOCK-C,1, 1,3,3, 5,5,7  $PROPELLANT NODES
  24 .88,,33,,463, 2.291,,86,,463, 1.730,1.730,,463, ,665,,665,,463/
  25 .88,,33,1.942, 2.291,,86,1.942, 1.730,1.730,1.942, ,665,,665,1.942
  26 10,2.150,1.176,,463, 12,,752,,559,,463, 18,2.150,1.176,1.942/
  27 20,,752,,559,1.942, 22,1.958,1.457,,463, 24,,825,,452,,463/
  28 30,1.958,1.457,1.942, 32,,825,,452,1.942
  29 BLOCK-C,1, 1,1,7, 5,3,9  $PROPELLANT NODES
  30 2.145,0,1.942, 2.447,0,1.942, 2.291,,86,1.942, ,88,,33,1.942/
  31 2.145,0,2.405, 2.447,0,2.405, 2.291,,86,2.405, ,88,,33,2.405
  32 10,2.430,,292,1.942, 12,1.403,,33,1.942, 18,2.430,,292,2.405/
  33 20,1.403,,33,2.405, 22,2.377,,588,1.942, 24,1.89,,33,1.942/
  34 30,2.377,,588,2.405, 32,1.89,,33,2.405
  35 BLOCK-C,1, 1,3,7, 5,5,9  $PROPELLANT NODES
  36 .89,,33,1.942, 2.291,,86,1.942, 1.730,1.730,1.942, ,665,,665,1.942/
  37 .88,,33,2.405, 2.291,,86,2.405, 1.730,1.730,2.405, ,665,,665,2.405
  38 10,2.150,1.176,1.942, 12,,752,,559,1.942, 18,2.150,1.176,2.405/
  39 20,,752,,559,2.405, 22,1.958,1.457,1.942, 24,,825,,452,1.942/
  40 30,1.958,1.457,2.405, 32,,825,,452,2.405
  41 BLOCK,2, 5,1,1, 7,3,3  $CASE NODES
  42 2.447,0,0, 2.517,0,0, 2.517,20.56,0, 2.447,20.56,0/
  43 2.447,0,,463, 2.517,0,,463, 2.517,20.56,,463, 2.447,20.56,,463
  44 BLOCK,2, 5,3,1, 7,5,3,  $CASE NODES
  45 2.447,20.56,0, 2.517,20.56,0, 2.517,45,0, 2.447,45,0/
  46 2.447,20.56,,463, 2.517,20.56,,463, 2.517,45,,463, 2.447,45,,463
  47 BLOCK,2, 5,1,3, 7,3,7  $CASE NODES
  48 2.447,0,,463, 2.517,0,,463, 2.517,20.56,,463, 2.447,20.56,,463/
  49 2.447,0,1.942, 2.517,0,1.942, 2.517,20.56,1.942, 2.447,20.56,1.942
  50 BLOCK,2, 5,3,3, 7,5,7  $CASE NODES
  51 2.447,20.56,,463, 2.517,20.56,,463, 2.517,45,,463, 2.447,45,,463/
  52 2.447,20.56,1.942, 2.517,20.56,1.942, 2.517,45,1.942, 2.447,45,1.942
  53 BLOCK,2, 5,1,7, 7,3,9  $CASE NODES
  54 2.447,0,1.942, 2.517,0,1.942, 2.517,20.56,1.942, 2.447,20.56,1.942/
  55 2.447,0,2.405, 2.517,0,2.405, 2.517,20.56,2.405, 2.447,20.56,2.405
  56 BLOCK,2, 5,3,7, 7,5,9  $CASE NODES
  57 2.447,20.56,1.942, 2.517,20.56,1.942, 2.517,45,1.942, 2.447,45,1.942/
  58 2.447,20.56,2.405, 2.517,20.56,2.405, 2.517,45,2.405, 2.447,45,2.405
  59 END,GRID
  60 KLOOP,4
  61 ILOOP,2
```

```
 62 JLOOP,6
 63 BRICKH,1, 1,1,1     $ PROPELLANT ELEMENTS
 64 JEND
 65 IEND
 66 KEND
 67 KLOOP,4
 68 JLOOP,2
 69 BRICK,2, 5,1,1     $ CASE ELEMENTS
 70 JEND
 71 KEND
 72 KLOOP,4
 73 ILOOP,3
 74 BC,SLOPE,1,1,1, 5     $  0 DEGREE FACE
 75 BC,SLOPE,1,3,1, 2     $ 45 DEGREE FACE
 76 IEND
 77 KEND
 78 JLOOP,2
 79 BC,SLOPE,5,1,1, 6     $ END OF CASE
 80 JEND
 81 BC,UZ,1,1,1, 0,-7.385E-2
 82 BC,UZ,1,2,1, 0,-7.385E-2
 83 BC,UZ,1,3,1, 0,-7.385E-2
 84 BC,UZ,1,4,1, 0,-7.385E-2
 85 BC,UZ,1,5,1, 0,-7.385E-2
 86 BC,UZ,2,1,1, 0,-5.538E-2
 87 BC,UZ,2,3,1, 0,-5.538E-2
 88 BC,UZ,2,5,1, 0,-5.538E-2
 89 BC,UZ,3,1,1, 0,-3.692E-2
 90 BC,UZ,3,2,1, 0,-3.692E-2
 91 BC,UZ,3,3,1, 0,-3.692E-2
 92 BC,UZ,3,4,1, 0,-3.692E-2
 93 BC,UZ,3,5,1, 0,-3.692E-2
 94 BC,UZ,4,1,1, 0,-1.846E-2
 95 BC,UZ,4,3,1, 0,-1.846E-2
 96 BC,UZ,4,5,1, 0,-1.846E-2
 97 BC,UZ,5,1,1, 0,0.
 98 BC,UZ,5,2,1, 0,0.
 99 BC,UZ,5,3,1, 0,0.
100 BC,UZ,5,4,1, 0,0.
101 BC,UZ,5,5,1, 0,0.
102 BC,UZ,1,1,9, 0,-.977E-2
103 BC,UZ,1,2,9, 0,-1.864E-2
104 BC,UZ,1,3,9, 0,-1.436E-2
105 BC,UZ,1,4,9, 0,-1.436E-2
106 BC,UZ,1,5,9, 0,-1.436E-2
107 BC,UZ,2,1,9, 0,-.525E-2
108 BC,UZ,2,3,9, 0,-1.165E-2
109 BC,UZ,2,5,9, 0,-1.165E-2
110 BC,UZ,3,1,9, 0,-.478E-2
111 BC,UZ,3,2,9, 0,-.638E-2
112 BC,UZ,3,3,9, 0,-1.015E-2
113 BC,UZ,3,4,9, 0,-1.015E-2
114 BC,UZ,3,5,9, 0,-1.015E-2
115 BC,UZ,4,1,9, 0,-.414E-2
116 BC,UZ,4,3,9, 0,-.638E-2
117 BC,UZ,4,5,9, 0,-.638E-2
118 BC,UZ,5,1,9, 0,-.362E-2
119 BC,UZ,5,2,9, 0,-.362E-2
120 BC,UZ,5,3,9, 0,-.362E-2
121 BC,UZ,5,4,9, 0,-.362E-2
122 BC,UZ,5,5,9, 0,-.362E-2
123 END,ELEMENTS
124 SOLVE
125 POST
126 BLOCK
127 OPTION,2
128 END,POST
```

```
129 REZONE,1,1,3, 3,3,5
130 REFINE,GRADS,1,1,3, 2,2,2
131 OCR,REZONE,1,1,3, 2,2,2,2,2,2, 1,1,3
132 END,CONTROL
133 SOLVE
134 POST
135 BLOCK
136 OPTION,2
137 END,POST
138 REZONE,1,1,3, 3,3,5
139 REFINE,GRADS,1,1,3, 2,2,2
140 OCR,REZONE,1,1,3, 2,2,2,2,2,2, 1,1,3
141 END,CONTROL
142 SOLVE
143 POST
144 BLOCK
145 OPTION,2
146 END,POST
147 STOP

TIME IN FFLOSS     =      1.111 SECONDS
```

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST ELEMENT I	J	K	POINT NO.	STRESS	SECOND ELEMENT I	J	K	POINT NO.	STRESS	THIRD ELEMENT I	J	K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	1	5	73	.225E+03	1	1	3	41	.225E+03	1	1	7	109	.208E+03
SIGMA MIN	1	1	7	116	-.938E+02	1	1	3	44	-.888E+02	1	1	5	76	-.764E+02
TAU MAX	1	1	3	41	.118E+03	1	1	5	73	.107E+03	1	1	5	77	.919E+02
EPS MAX	1	1	1	5	.211E+00	1	1	3	37	.211E+00	1	1	1	4	.183E+00
EPS MIN	1	1	3	41	-.291E+00	1	1	5	73	-.276E+00	1	1	5	77	-.226E+00
GAMMA MAX	1	1	3	41	.473E+00	1	1	5	73	.459E+00	1	1	5	77	.384E+00
MATERIAL NUMBER = 2															
SIGMA MAX	5	3	7	213	.376E+05	5	3	7	209	.368E+05	5	3	7	218	.366E+05
SIGMA MIN	5	1	7	203	-.116E+06	5	1	7	206	-.116E+06	5	3	7	212	-.114E+06
TAU MAX	5	1	7	203	.640E+05	5	3	7	212	.637E+05	5	1	7	206	.686E+05
EPS MAX	5	1	7	203	.234E-02	5	3	7	212	.233E-02	5	1	7	206	.283E-02
EPS MIN	5	1	7	203	-.321E-02	5	3	7	212	-.318E-02	5	1	7	206	-.318E-02
GAMMA MAX	5	1	7	203	.555E-02	5	3	7	212	.552E-02	5	1	7	206	.552E-02

TIME IN POST = 3.009 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 16

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 15

COARSE GRID ELEMENT = 5

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	30101	.940E+00	0.	.463E+00	11	30302	.123E+01	.463E+00	.463E+00
2	30103	.169E+01	0.	.463E+00	12	30201	.925E+00	.160E+00	.463E+00
3	30303	.159E+01	.595E+00	.463E+00	13	40101	.127E+01	0.	.844E+00
4	30301	.888E+00	.330E+00	.463E+00	14	40103	.186E+01	0.	.830E+00
5	50101	.160E+01	0.	.116E+01	15	40303	.159E+01	.595E+00	.833E+00
6	50103	.202E+01	0.	.110E+01	16	40301	.888E+00	.330E+00	.833E+00
7	50303	.159E+01	.595E+00	.120E+01	17	50102	.181E+01	0.	.117E+01
8	50301	.888E+00	.330E+00	.120E+01	18	50203	.186E+01	.340E+00	.119E+11
9	30102	.132E+01	0.	.463E+00	19	50302	.123E+01	.462E+00	.120E+11
10	30203	.167E+01	.382E+00	.463E+00	20	50201	.131E+01	.266E+00	.110E+11

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	J	K	POINT NO.	STRESS	ELEMENT I	J	K	POINT NO.	STRESS	ELEMENT I	J	K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	1	3	5	32	.548E+04	1	1	5	17	.548E+04	3	1	3	30	.362E+04
SIGMA MIN	1	3	5	35	-.882E+04	1	1	5	14	-.487E+04	1	1	3	2	-.240E+04
TAU MAX	1	1	5	14	.118E+03	1	3	3	23	.108E+03	1	3	5	20	.108E+03
EPS MAX	1	1	3	1	.211E+00	1	1	3	4	.193E+00	1	3	3	19	.103E+00
EPS MIN	1	1	5	14	-.291E+00	1	3	5	20	-.244E+00	1	3	3	23	-.244E+00
GAMMA MAX	1	1	5	14	.473E+01	1	3	5	20	.429E+01	1	1	3	17	.429E+01

TIME IN POST = 1.128 SECONDS

MAXIMUM NUMBER OF COARSE GRID ELEMENTS POSSIBLE = 15

MAXIMUM DIMENSION OF REFINED GRID = 1331

MAXIMUM NUMBER OF GRID POINTS IN ANY ONE DIRECTION = 15

COARSE GRID ELEMENT = 1

NODE	K J I	X-COORD	Y-COORD	Z-COORD	NODE	K J I	X-COORD	Y-COORD	Z-COORD
1	30101	.948E+00	0.	.463E+00	11	30302	.111E+01	.201E+00	.463E+00
2	30103	.132E+01	0.	.463E+00	12	30201	.930E+00	.848E-01	.463E+00
3	30303	.130E+01	.235E+00	.463E+00	13	40101	.110E+01	0.	.662E+00
4	30301	.929E+00	.168E+00	.463E+00	14	40103	.144E+01	0.	.658E+00
5	50101	.127E+01	0.	.844E+00	15	40303	.137E+01	.253E+00	.653E+00
6	50103	.157E+01	0.	.841E+00	16	40301	.102E+01	.192E+00	.659E+00
7	50303	.144E+01	.271E+00	.837E+00	17	50102	.142E+01	0.	.843E+00
8	50301	.112E+01	.217E+00	.839E+00	18	50203	.191E+01	.149E+00	.839E+00
9	30102	.113E+01	0.	.463E+00	19	50302	.120E+01	.204E+00	.836E+00
10	30203	.131E+01	.110E+00	.463E+00	20	50201	.120E+01	.121E+00	.842E+00

ELEMENT SUMMARY REPORT

THREE MOST HIGHLY STRESSED ELEMENTS

	FIRST					SECOND					THIRD				
	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS	ELEMENT I	ELEMENT J	ELEMENT K	POINT NO.	STRESS
MATERIAL NUMBER = 1															
SIGMA MAX	3	3	3	57	.662E+04	3	1	5	51	.629E+04	1	3	3	22	.202E+04
SIGMA MIN	3	3	5	70	-.118E+05	3	3	3	58	-.414E+04	1	3	3	21	-.414E+04
TAU MAX	1	3	5	35	.108E+03	1	3	3	23	.933E+02	1	3	5	28	.933E+02
EPS MAX	1	1	3	7	.235E+00	3	1	3	44	.229E+00	1	1	3	1	.211E+00
EPS MIN	1	3	5	35	-.244E+00	1	1	5	13	-.203E+00	1	3	5	28	-.203E+00
GAMMA MAX	1	3	5	35	.429E+00	1	1	5	13	.399E+00	1	1	3	8	.389E+00

TIME IN POST = 1.158 SECONDS

TIME IN STOP = 86.198 SECONDS

```
      NICOM SCOPE 3.4.2 HN SN 49 HXN P.D 14.27
15.30.24.HNAKPBR   FROP     /KP
15.30.24.IP   00000704 WORDS - FILE INPUT   , DC 00
15.30.25.HNAKP,T1000,CM200000,L1000.
15.30.25.7E41K10M05 7200  A3 HACKETT     BH01
15.30.26.LIMIT(1000)
15.30.26.ATTACH(TEX3B,KPXXHH,ID=KPXXX,CY=3,MP=1)
15.30.26.DISPOSE(OUTPUT,*PR=C)
15.44.25.LOSET(PRESET=ZERO)
15.44.25.TEX39.
16.31.53. NON-FATAL ERROR(S) IN OVERLAY GEN.
19.06.51.     STOP
19.06.51.     06.173 CP SECONDS EXECUTION TIME
19.06.51.EXIT.
19.06.51.OP   00044064 WORDS - FILE OUTPUT , DC 40
19.06.51.MS    46592  WORDS  (  344064 MAX USED)
19.06.51.CPA       93.278 SEC.        83.959 ADJ.
19.06.51.IO        96.212 SEC.        54.428 ADJ.
19.06.51.CM     9386.892 KWS.         95.473 ADJ.
19.06.51.PP      197.300 SEC.      DATE 10/10/77
19.06.51.EJ   END OF JOB, KP
```

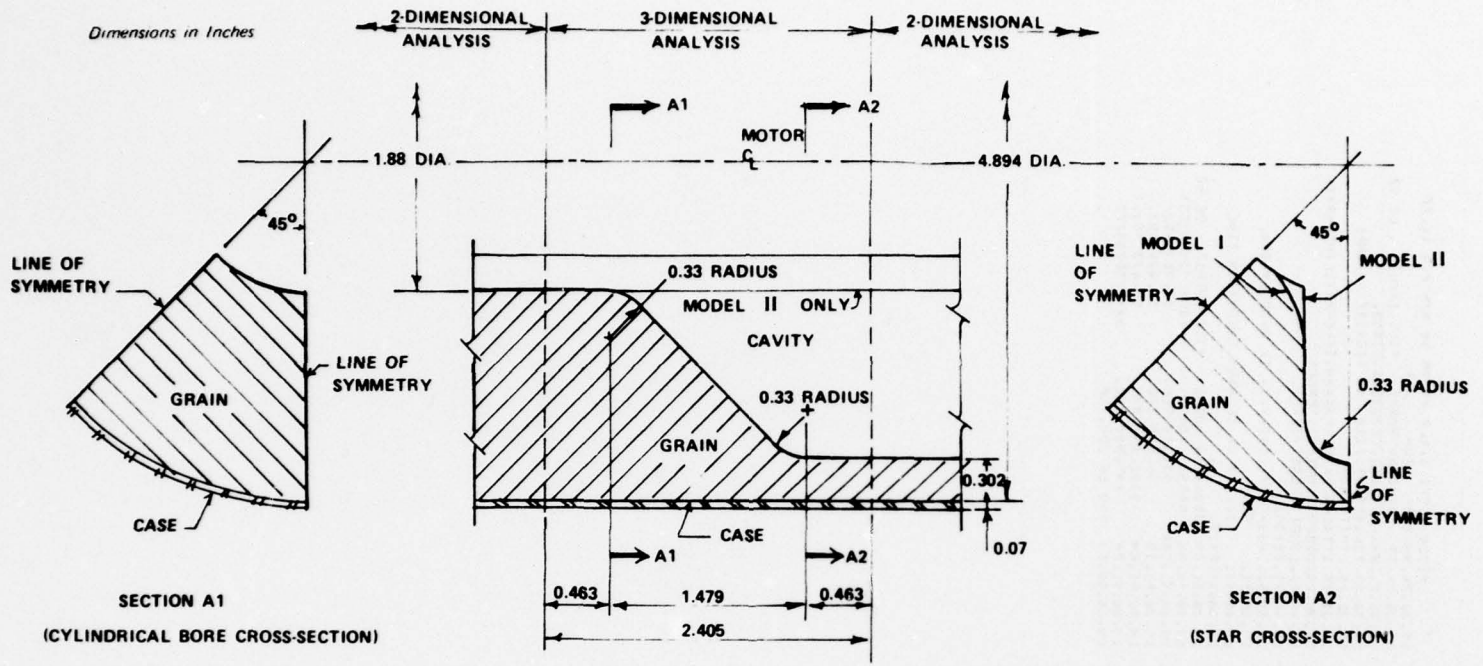


Figure 1. Star to Cylindrical Bore Transition Region (45° Segment)

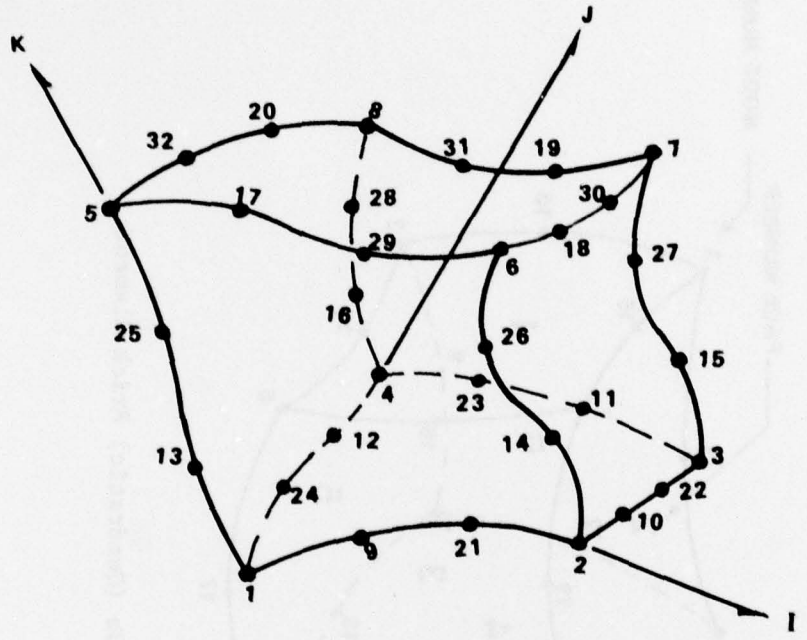


Figure 2. Cubic Grid Generation Block

The eight corner points must be input (1 thru 8). Points 9 thru 32 not specified are located automatically by linear interpolation between corners.

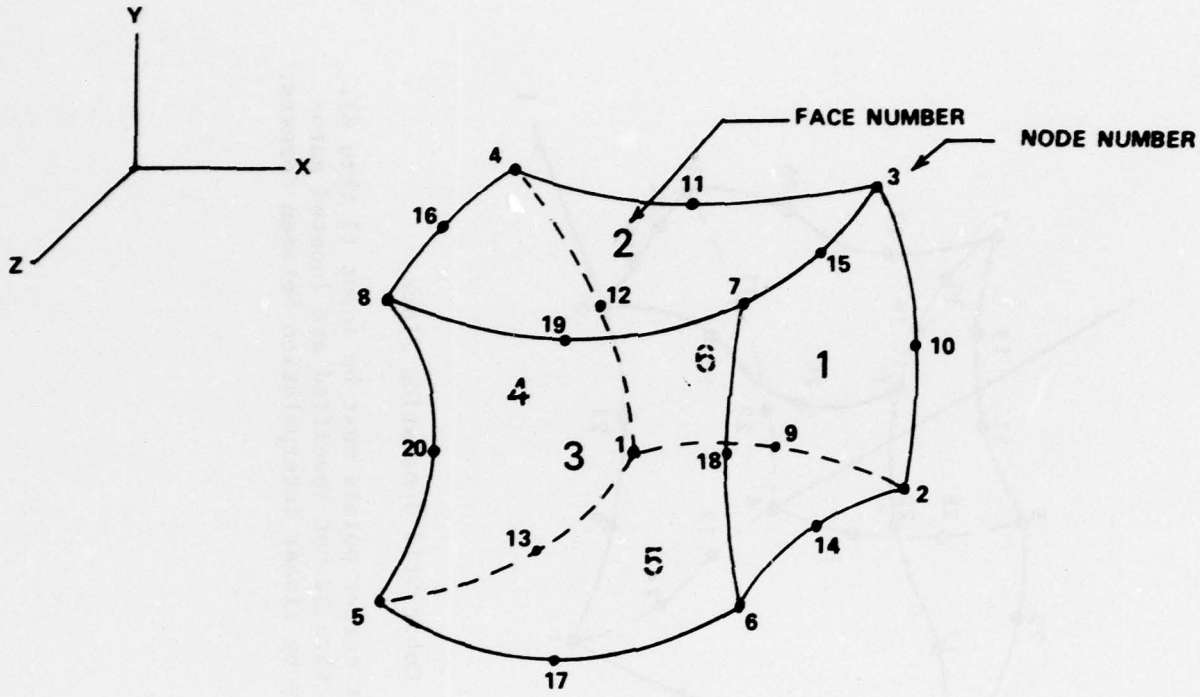


Figure 3. 20 Node (Quadratic) Brick Element

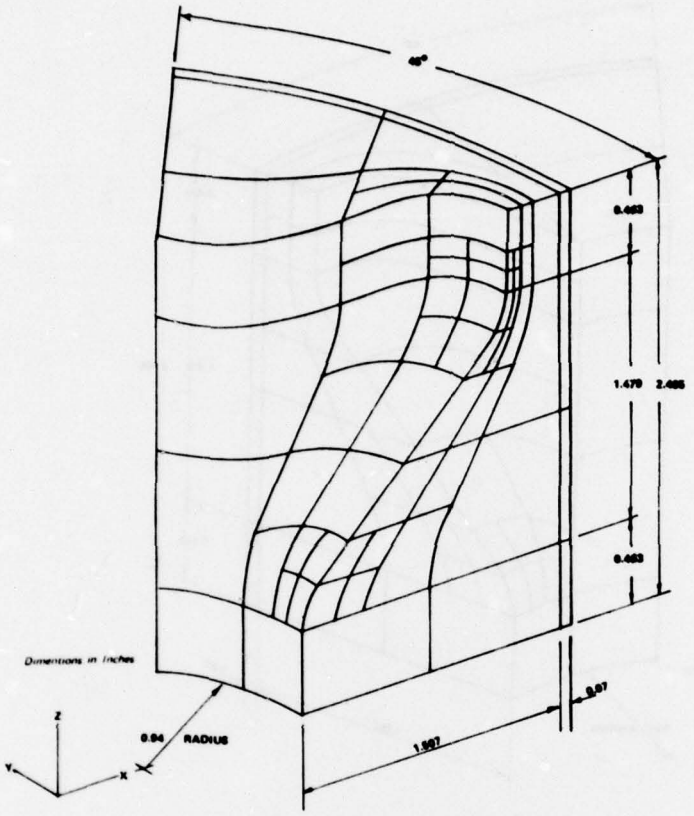


Figure 4. Finite Element Model of Star to Cylindrical Bore Transition (I)

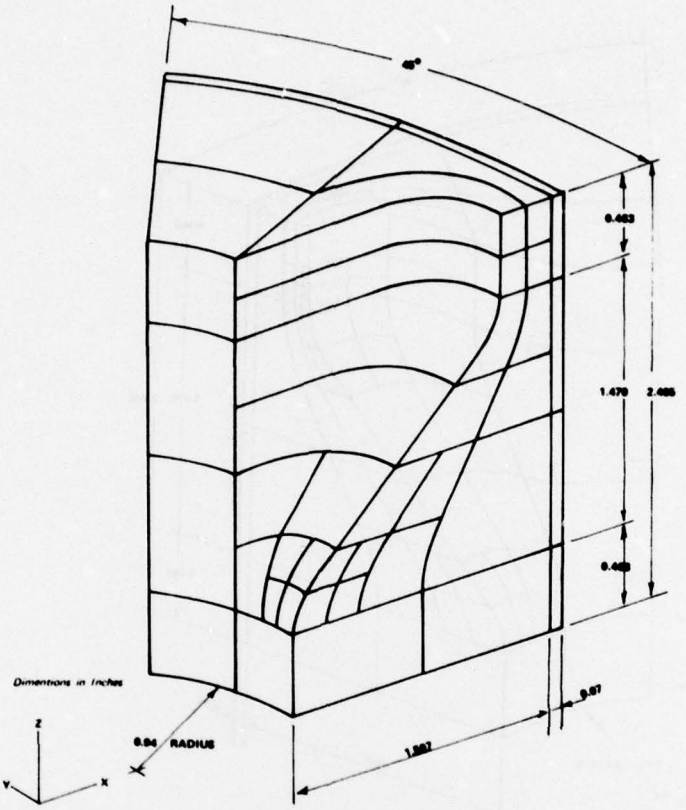
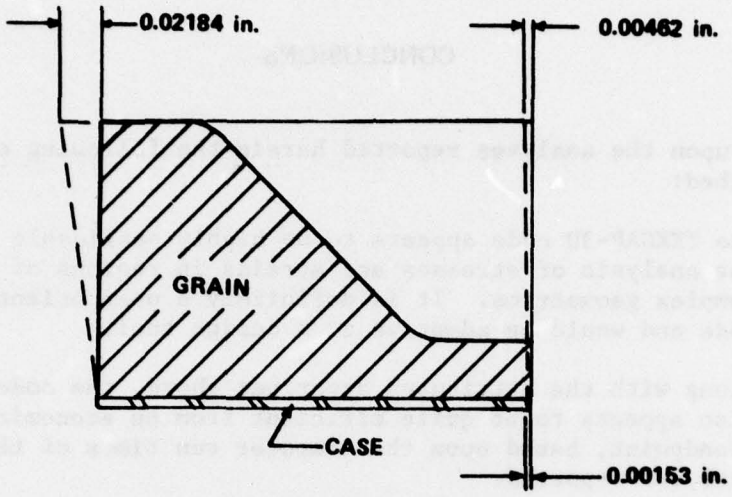
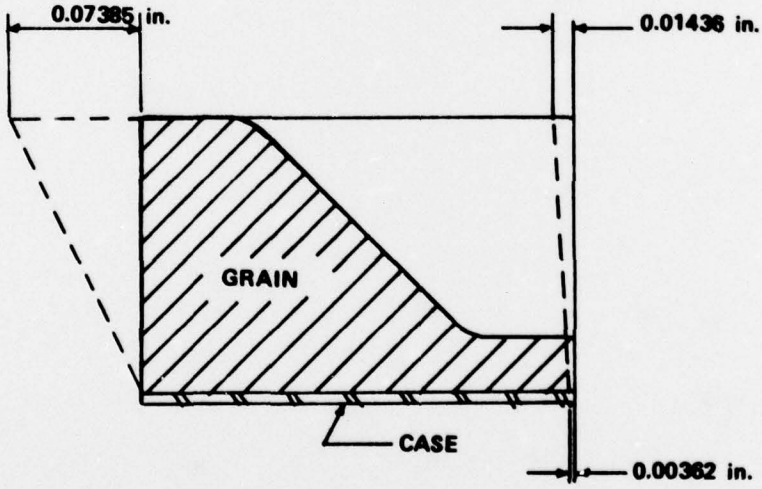


Figure 5. Finite Element Model of Star to Cylindrical Bore Transition (II)



a) PRESSURE LOADING CONDITION



b) THERMAL LOADING CONDITION

Figure 6. Grain Transition Interface Displacements (From Previous Two-Dimensional Analyses)

CONCLUSIONS

Based upon the analyses reported herein the following conclusions can be reached:

1) The TEXGAP-3D code appears to be highly applicable to the analysis of stresses and strains in regions of complex geometrics. It is definitely a user oriented code and would be adaptive as a design tool.

2) Along with the attributes described above, the code also appears to be quite efficient from an economic standpoint, based upon the computer run times of the analyses reported.

REFERENCES

1. Engineering Analysis of Selected Advanced Propulsion Concepts - III, Technical Report RK-CR-76, US Army Missile Command, Redstone Arsenal, Alabama, September 1976.

2. E. B. Becker and R. S. Dunham, "TEXGAP-3D - A User Oriented Three-Dimentional Static Linear Elastic Stress Analysis Program", Vol. I, March 1977.

3. E. B. Becker and R. S. Dunham, "TEXGAP-3D - A User Oriented Three-Dimensional Static Linear Elastic Stress Analysis Program", Vol. II, March 1977.

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