

- PRODUCING PIPELINE GAS FROM COAL. PAPER NO. 1. Schora, F.C., Jr.; Lee, B.S. (Inst. Gas Tech., Chicago, IL). American Chemical Society, Division of Fuel Chemistry. 160. ACS National Meeting, Chicago, IL, Sep 14-18, 1970. Washington, DC; American Chemical Society, Division of Fuel Chemistry (1970).
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COAL GASIFICATION;HYGAS PROCESS;PILOT PLANTS; PRODUCTION;HIGH BTU GAS
- 05139 METHANATION FOR COAL HYDROGASIFICATION. Lee, A.L.; Feldkirchner, H.L.; Tajbl, D.G. (Inst. Gas Technol., Chicago, Ill). Am. Chem. Soc., Div. Fuel Chem., Preprints; 14: No. 4 (Pt. 1), 126-42(1970). (In English).
Substantial fraction of product gas is CO, CO₂, and H₂, which are catalytically converted to CH₄; Ni-on-alumina catalyst used. COAL GASIFICATION;METHANATION;HIGH BTU GAS; PRODUCTION;COAL;CATALYSTS;METHANE;CHEMICAL REACTION KINETICS;EQUIPMENT;NICKEL;ALUMINIUM OXIDES
- 05140 LURGI PRESSURE GASIFICATION AS A MODERN METHOD FOR PROCESSING COAL INTO SYNTHETIC GAS. Rudolph, P.F.H. Chem. Process. Eng. (Bombay); 4: No. 1, 21-7(1970). (In English).
Review with special application to India. LURGI PROCESS;COAL GASIFICATION;SYNTHETIC FUELS; GASEOUS PRODUCTS;PRODUCTION;REVIEWS;INDIA;FUEL GAS
- 05141 REACTION MODEL FOR BITUMINOUS COAL HYDROGASIFICATION IN A DILUTE PHASE. Feldmann, H.P.; Simons, W.H.; Mima, J.A.; Hiteshue, R.W. (U. S. Bur. of Mines, Pittsburgh, PA). Am. Chem. Soc., Div. Fuel Chem., Preprints; 14: No. 4 (Pt. 2), 1-25(1970). (In English).
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- 05143 GAS FOR GAS TURBINES BY LURGI PRESSURE GASIFICATION OF COAL. Rudolph, P. (Lurgi Ges. Waerme-und Chemotech., mbH, Frankfurt/M., Ger.). Technology; 7: No. 4, 112-15(1970). (In English).
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- 05146 (PB-193928) COST ESTIMATE OF A 500 BILLION BTU/DAY PIPELINE GAS PLANT VIA HYDROGASIFICATION AND ELECTROTHERMAL GASIFICATION OF LIGNITE. 1970. Contract DI-14-01-0001-381. 83p. NTIS \$5.00.
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- 05148 (EN-294) ENGINEERING STUDY AND TECHNICAL EVALUATION OF THE BITUMINOUS COAL RESEARCH, INC., TWO-STAGE SUPER PRESSURE GASIFICATION PROCESS. (Air Products and Chemicals, Inc., Allentown, Pa. (USA)). 1970.
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- 05149 HYDROGEN: KEY TO THE ECONOMICS OF PIPELINE GAS FROM COAL. PAPER NO. 15. Tsaros, C.L. (Inst. Gas Tech., Chicago, IL). American Chemical Society, Division of Fuel Chemistry. 160. ACS National Meeting, Chicago, IL, Sep 14-18, 1970. Washington, DC; American Chemical Society, Division of Fuel Chemistry (1970).
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- 05150 GASIFICATION REACTION OF LUMP COKE FOR BLAST-FURNACE USE. Taguchi, S.; Okabe, K. (Tech. Inst., Kawasaki Steel Co., Ltd., Kawasaki, Japan). Kawasaki Seitetsu Giho; 2: No. 4, 358-66(1970). (In Japanese).
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- 05151 ECONOMIC COMPARISON OF PROCESSES FOR PRODUCING PIPELINE GAS (METHANE) FROM COAL. PAPER NO. 14. Henry, J.P., Jr.; Louks, B.M. (Stanford Res. Inst., Menlo Park, CA). American Chemical Society, Division of Fuel Chemistry. 160. ACS National Meeting, Chicago, IL, Sep 14-18, 1970. Washington, DC; American Chemical Society, Division of Fuel Chemistry (1970).
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- 05152 COAL SCIENCE - STATE OF THE ART. Eryomin, I.V.; Etinger, I.L. Vestn. Akad. Nauk SSSR; No. 3, (1970). (In Russian).
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- 05153 PRODUCTION OF SYNTHETIC NATURAL GAS BY HYDROGASIFICATION. Prasek, K. (Ustav Vyzk. Paliv, Bechovice, Czech.). Plyn; 50: No. 7, 215-19(1970).
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- 05155 HIGH-BTU GAS FROM COAL VIA GASIFICATION AND CATALYTIC METHANATION. Forney, A.J.; Katell, S.; Crentz, W.L. (Pittsburgh Energy Res. Cent., Bur. Mines, Pittsburgh, PA). Proc. Amer. Power Conf.; 32: 428-34(1970).
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- 05156 PRESSURIZED FLUIDIZED BEDS FOR INTENSIFYING THE COMBUSTION AND GASIFICATION OF SOLID FUELS. Rabinovich, L.B.; Sechenov, G.P. (Inst. Goryuch. Iskop., Moscow, USSR). Khim. Tverd. Topl.; 6: 81-6(1970).
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- 05157 TECHNOLOGICAL PROCESS ANALYSIS OF THE GASIFICATION OF RAW COAL USING NUCLEAR ENERGY. Femmer, U.; Franke, F.H.; Meraikib, M. (Inst. Eisenhuettenkunde, Rheinisch-Westfael. Tech. Hochsch., Aachen, Ger.). Atomwirt., Atomtech.; 15: No. 5, 240-2(1970).
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- 05158 SYNTHETIC PIPELINE GAS FROM COAL BY THE HYGAS PROCESS. Lee, B.S. (Inst. Gas Technol., Chicago, IL). Proc. Amer. Power Conf.; 32: 421-7(1970).
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- 05159 GASIFICATION OF UNWASHED COAL WITH ITS OWN WATER. Wenzel, W.; Meraikib, M.; Franke, F.H. (Abt. Huettenmaenn. Verfahrenstech., Rheinsch-Westfael. Tech. Hochsch., Aachen, Ger.). Chem.-Ing.-Tech.; 42: No. 9-10, 638-41(1970).
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- 05160 GASIFICATION OF COAL WITH LASER LIGHT IRRADIATION, PLASMA JET, AND DISCHARGE-GENERATED EXCITED SPECIES. Sanada, Y. (Resources Res. Inst., Japan). Nenyryo Kyokai-shi; 49: No. 520, 580-91(1970).
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- 05162 HIGH-PRESSURE ELECTROTHERMAL FLUID-BED GASIFICATION OF COAL CHAR. Kavlick, V.J.; Lee, B.S. (Inst. Gas Technol., Chicago, IL). Chem. Eng. Progr., Symp. Ser.; 66: No. 105, 145-51(1970).
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- 05163 ECONOMIC EVALUATION OF A PROCESS TO PRODUCE ASHLESS, LOW-SULFUR FUEL FROM COAL. Anon. Washington, DC; USA; U. S., Off. Coal Res. (1970). vpp.
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- 05164 HYDROGASIFICATION OF COAL IN HIGH-PRESSURE FLUIDIZED BEDS. Lee, B.S.; Pyrcioch, E.J.; Schora, F.C., Jr. (Inst. Gas Technol., Chicago, IL). Chem. Eng. Progr., Symp. Ser.; 66: No. 105, 152-6(1970).
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- 05170 COAL HYDROGASIFICATION. Benson, H.E. (to Consolidation Coal Co.). US Patent 3,503,724. 31 Mar 1970.
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- 05179 GASIFICATION OF CARBONACEOUS MATERIAL. Benson, H.E. (to Consolidated Natural Gas Service, Co., Inc.). South African Patent 2,054. 20 Nov 1970. 17p.
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- 05180 GASIFYING COAL AND/OR OIL WITH HYDROGEN. Wenzel, W.; Franke, F.H.; Meraikib, M. (to Rheinische Braunkohlenwerke). South African Patent 3,389. 25 Nov 1970. 19p.
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- 05181 TECHNOLOGY AND COST OF COAL GASIFICATION. Siegel, H.M.; Kalina, T. (Esso Res. and Engineering Co., Florham Park, NJ). ASME Paper No. 72-WA/Fu-2; 9p. (26 Nov 1970).
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- 05190 COAL BREAKAGE WITH NUCLEAR EXPLOSIONS FOR IN SITU GASIFICATION. Lombard, D.B. (Geo-Resour. Assoc., Arvada, CO). Nucl. Sci. Abstr.; 25: No. 21, 48682(1971). (In English).
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- 05191 UNDERGROUND GASIFICATION OF COAL.

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- 05192 GASIFICATION OF LIGNITE BY BCR [BITUMINOUS COAL RESEARCH] TWO-STAGE SUPERPRESSURE PROCESS. Grace, R.J.; Glenn, R.A.; Zahradnik, R.L. (Bituminous Coal Res., Inc., Monroeville, PA). Ind. Eng. Chem., Prod. Res. Develop.; 11: No. 1, 95-102(1971). (In English).
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- 05193 PREPARATION OF AN ENERGY-PRODUCING GAS FROM SULFUR COALS OF THE WESTERN DONETS BASIN BY THEIR PRESSURIZED FLUIDIZED-BED GASIFICATION. Sechenov, G.P. (Inst. Goryuch. Iskop., Moscow, USSR). Khim. Tverd. Topl.; 6: 59-66(1971). (In Russian).
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- 05194 ANALYSIS OF SEPARATE STAGES OF UNDERGROUND GASIFICATION OF BROWN COAL. Lavrov, N.V.; Kulakova, M.A.; Kazachkova, S.T. (USSR). Tr. Inst. Proizvod. Opyt, Vses. Nauch.-Issled. Inst. Ispol'z. Gaza Nar. Khoz., Podzemn. Khraneniya Nefti, Nefteprod. Szhizhennykh Gazov; No. 5, 133-7(1971).
Effects of seam thickness, quantity and degree of preheating of air blown into gasification zone on heat of combustion of gas produced were evaluated. COAL GASIFICATION;IN-SITU METHOD;BROWN COAL;COMBUSTION HEAT;COAL GAS; PRODUCTION;AIR
- 05195 ENGINEERING STUDY AND TECHNICAL EVALUATION OF THE BITUMINOUS COAL RESEARCH, INC. TWO-STAGE SUPER-PRESSURE GASIFICATION PROCESS. Anon. U. S. Office CI Res., Res. Dev. Rep.; 60: 99p.(1971).
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Survey with 6 references; oal gasification seen as primary substitute for natural gas; discussion of chemistry and types of processes under serious consideration; suggestion of CH₄ as automotive fuel. COAL;COAL GAS;PRODUCTION; COAL GASIFICATION
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Liquefaction

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COAL LIQUEFACTION

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05650 CATALYST PROBLEMS OF SYNTHETIC BENZINE PREPARATION. Reichenbach, I. Metallboerse; 19: 2861-2862(1929).

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05652 LIQUID PRODUCTS FROM COAL OR

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LIQUID PRODUCTS
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CATALYSTS; AMMONIUM COMPOUNDS; MOLYBDATES;
TUNGSTATES; PHOSPHORUS COMPOUNDS; SILICON
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