

# A Complete Bibliography of Publications in the *SIAM Journal on Applied Mathematics*

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## Title word cross-reference

**#4348** [1574]. **#5412** [2405]. **#6819** [2450].  
 $(m, 2)$  [1171].  $(m - 3)$  [1767].  $(m - 4)$  [1767].  
 $(s, S)$  [2363, 1355, 90].  $(\sigma, S)$  [586].  $0$  [1328].  
 $1$  [1316, 2337, 3314, 1328].  $1/f$  [2885].  $2\pi$  [2379].  
 $2 \times 2$  [3170].  $3$  [659].  $A$  [1637].  $a > 0$  [1404].  
 $AD + DA' = -C$  [554].  $\alpha$  [1878, 2144].  $\alpha \sin \zeta = \zeta$  [958].  
 $AX + XB = -Q$  [552].  $AX + XB = C$  [1042, 337, 1384].  
 $AX - XB = -C$  [866].  $AX - XB = C$  [1183, 1495, 47].  
 $AX - YB = C$  [1495].  $AX = XB$  [840].  $AXB + CXD = E$  [1507].  
 $AY + YB = -Q$  [889].  $AZ + B - ZCZ - ZD = 0$  [1323].  $B_n$  [661].  
 $\beta$  [2965, 3408].  $\beta = -1$  [1289].  $C$  [985, 1900, 1901, 1472, 728].  $C^1$  [3267].  $D$  [1637, 158, 3534, 1089].  
 $D/M/1$  [1483].  $DA$  [1637].  $\ddot{V} > 0$  [1051].  $\ddot{x} + f(x, \dot{x}) + g(x) = 0$  [91].  
 $\delta$  [2272].  $E^n$  [185].  $\epsilon$  [402, 1117].  $F$  [1155, 3513, 2089].  
 $F(i + 1, k + 1, n + 1) = q^{k+1}F(i, k + 1, n) - q^k F(i, k, n)$  [1397].  
 $f(x) = a$  [743].  $\frac{d^2 y}{dt^2} + w^2 y = \varepsilon (\sum_{i=1}^n b_i \cos 2a_i t) y$  [1375].  
 $G$  [662, 2980].  $G/M/m$  [2836].  $\gamma = 0$  [1289].  $GF(2^s)$  [579].  
 $GF(3 \cdot 2^n + 1)$  [1466].  $GI/G/1$  [279].  $H$  [1548, 2164, 2402].  $I$  [330].  
 $\int_0^1 \cdots \int_0^1 (x_1^2 + \cdots + x_k^2)^{1/2} dx_1 \cdots dx_k$  [1310].  $J$  [530].  
 $J_1^2(\zeta) - J_0(\zeta)J_2(\zeta) = 0$  [2784].  $J_m$  [881].  $K$  [110, 104, 184, 672, 52, 2337, 832].  $L$  [428, 133, 984].  
 $l^1$  [2169].  $L^2(-\infty, \infty)$  [2057].  $L^\infty$  [2307].  $L_2$  [2338].  $l_p$  [398, 1233, 471].  $\lambda$  [2453, 3120].  $\lambda - \omega$  [1854].

$LR$  [388].  $L^1$  [3171].  $Lu + \lambda b(x)u = g(x, u)$  [720].  $M$  [977].  $M/D/1$  [1201].  $M/G/1$  [891, 2342, 448].  $M/G/2$  [2399].  $M/G/\infty$  [11].  $\mathbf{R}^2$  [1572].  $\mathbf{R}^3$  [3550].  $ML$  [1637].  $mth$  [1284].  $M \times M$  [337].  $\mu$  [1680, 1864].  $M|G|\hat{I}$  [914].  $N$  [2262, 1158, 1097, 1252, 2317, 238, 734, 828, 2240, 735, 72, 2680, 3421, 220, 248, 540, 1529, 1405, 207, 534, 553, 1684, 2417, 2852, 1598, 931, 1225, 1068].  $n + 1$  [255].  $\nabla^2 u(x) = f(x) + k(x)u(x)$  [2344].  $NP$  [1508].  $n \times n$  [1284, 337].  $O(1)$  [3344].  $O(2)$  [2916].  $O(4)$  [1365].  $\omega$  [1739, 3120].  $\omega > 0$  [1404].  $\{\text{sgn}(f(t_i) + x_i)\}$  [2089].  $P$  [975, 690, 1923, 1775, 1776, 417, 2417].  $p = 2$  [1814].  $p = 8m + 1$  [1189].  $p = 8m - 1$  [986].  $\partial_y u + \partial_x \sqrt{1 - u^2} = 0$  [3296].  $\partial u / \partial t = -u \cdot \Delta u$  [940].  $\phi^4$  [2068].  $\phi_x^3 \phi_{xx} = \phi_{\bar{y}\bar{y}}$  [3501].  $PN$  [1410].  $Q$  [1407, 1585, 417].  $Q_{\nu-1/2}^{-\mu}(\cos \theta)$  [2009].  $R$  [1726, 3026, 1135].  $R^3$  [2912, 3205].  $R^n$  [843, 870, 1298].  $RC$  [67].  $\Re^3$  [3477].  $S$  [1742].  $S^{TX} + XS = -Q$  [552].  $S_t = [(\beta S + \gamma)^{-2} S_x]_x + \alpha(\beta S + \gamma)_x^{-2S}$  [1989].  $\sigma, S$  [1802].  $SO(3)$  [1698].  $T$  [881, 985, 1571, 1155, 1432].  $u''(t) + a(t)f(u)g(u') = 0$  [21].  $u_0$  [163].  $V$  [2358].  $\varepsilon$  [1404].  $x'' + A(t)g(x) = f(t)$  [843].  $x'' + a(t)x^{2n-1} = 0$  [196].  $x - \varepsilon(1 - x^{2n+2})x + x^{2n+1} = \varepsilon a \cos \omega t$  [1404].  $x - y$  [382].  $XA + BX = C$  [270].  $XAX = X$  [1113].  $X \rightarrow X - CXC$  [1151].  $y'(x) = my(x - d(x))$  [1160].  $y'(x) = y(x - d(x))$  [715].  $y'' + \lambda p(x)y = 0, y(a) = y(b) = O$  [753].  $y''' + py = 0$  [1143].  $y'' + yF(y^2, x) = 0$  [902].  $y'^2 - 2p(x)y = -p(x)q(x)$  [755].  $YB - AY = F$  [61].  $\|\phi^3\| \leq c\|\nabla\phi\|^3$  [728].

**-1** [446]. **-actin** [3513]. **-Approximation** [398]. **-arcs** [3267]. **-Ary** [553]. **-Baecklund** [1171]. **-Bifurcation** [2453]. **-Body** [659]. **-Cells** [2965, 3408]. **-centers** [1775]. **-Circulant** [1135]. **-closure** [2980]. **-Complete** [1508]. **-Complexity** [1472]. **-Components** [832]. **-convergence** [3171]. **-Criteria** [471]. **-Cube** [248, 1684]. **-Cyclic** [881]. **-D** [3314]. **-Densities** [1680, 1864]. **-Designs** [1571]. **-Determinants** [614]. **-Dimensional** [2262, 1158, 828, 1598, 2680]. **-Distributions** [1155]. **-Edge-Connectivity** [1068]. **-Entropy** [402]. **-Excited** [238]. **-Fold** [1529]. **-Function** [1548, 2164, 2272, 2402]. **-Functions** [662]. **-Interpolation** [1878, 2144]. **-Junction** [2417]. **-limits** [1739]. **-lines** [1900]. **-Matrices** [1585, 1410, 690, 1407]. **-Matrix** [1637]. **-medians** [1776]. **-Membrane** [133]. **-of** [2337]. **-Partite** [672]. **-Person** [540, 1097, 734, 735, 1405]. **-Point** [1252]. **-Policies** [2363, 1355]. **-Ports** [207]. **-Positive** [163]. **-Sequence** [977]. **-Shaped** [428]. **-Soliton** [3421]. **-Space** [158, 1233, 1089, 72]. **-Spaces** [220, 534]. **-states** [2358]. **-Statistic** [1432]. **-Symmetry** [2916]. **-Tournaments** [931, 1225]. **-Transformations** [330]. **-Trees** [52]. **-varieties** [1901]. **-Vessel** [2852]. **-Wave** [3534].

**0-1** [1430, 1398].

**1** [3030]. **1-1** [1169]. **1-Factors** [602]. **11** [37]. **13** [1494, 139]. **14** [38, 144, 138, 184]. **15** [253, 534]. **17** [667]. **19** [854]. **1st** [1931].

**2-Variate** [741]. **20** [1101, 792, 896]. **22** [988]. **24** [2405]. **25** [1156]. **27** [1232]. **28** [1361]. **2nd** [1931].

**3-Commodity** [374]. **30** [1479]. **31** [1512, 1585, 2450, 1574]. **32** [1546, 1677]. **35** [1721]. **37** [1789, 1788]. **38** [1885]. **39** [1932].

**4** [189]. **42** [2044, 2100]. **44** [2244, 2252]. **45** [2309]. **47** [2539, 2405]. **48** [2639, 2562].

**50** [2731]. **51** [2903]. **52** [3043]. **53** [3183].

**54** [1574]. **55** [2450].

**80m** [1885]. **83j** [2100]. **85d** [2244]. **86j** [2309]. **88d** [2539]. **89a** [2562]. **89c** [2639].

**92d** [2903]. **93h** [3043]. **94h** [3183].

**ABC** [2978]. **ABC's** [3350]. **Abel** [3331, 3114, 171]. **Abelian** [2031, 104]. **Abnormal** [1827]. **Above** [473, 238]. **Abscissa** [764]. **Absorbed** [2594]. **Absorbing** [3224, 3062, 3093]. **Absorption** [2143, 3481, 107]. **Abstract** [1287]. **AC** [3453]. **Accelerated** [518]. **Accelerating** [2801]. **Acceleration** [1785]. **Accelerators** [2150, 2026, 2027]. **Accommodation** [3023]. **Accompanied** [2444]. **According** [78]. **Accuracy** [1271, 221, 2002, 131, 2005, 31]. **Accurate** [1961, 3493, 2108, 3191]. **Ackerberg** [1941]. **Acknowledgment** [2244]. **Acoustic** [2798, 3013, 2308, 3553, 3463, 3479, 3158, 3186, 2830, 3130, 2753, 2998, 2462, 2536, 1238, 3473, 2222, 2343, 3233, 3297]. **Acoustical** [3452]. **Acoustics** [2482]. **Acquisition** [2731, 2681]. **Across** [2021, 2104, 1734]. **actin** [3513]. **Acting** [1203, 1300]. **Activation** [3318]. **Active** [67, 807, 2073, 2133, 3135]. **Activity** [1790, 2965, 3459, 2116, 3408]. **Actuators** [3307]. **Adapting** [1544]. **Adaption** [85]. **Adaptive** [3000, 2491, 2671]. **Addenda** [1885]. **Addendum** [1787, 2405, 140, 973]. **Adding** [2732]. **Addition** [1000, 1048]. **Additive** [3484, 1266, 981]. **Adiabatic** [2899, 3512, 3365, 2027, 2062]. **Adjacency** [429, 241, 55, 1328]. **Adjacent** [1462]. **Adjoint** [655, 2264, 323]. **Adjointness** [576, 486]. **Adjustment** [1737]. **Admittance** [782]. **Admitting** [2774]. **Adsorption** [2461, 2037]. **Advection** [1720, 2863]. **Advection-Diffusion** [2863]. **Aerodynamic** [3542]. **Aerodynamics** [3070, 3501]. **Aeroelastic** [3103]. **Affect**

[3041]. **Affine** [3244, 2434, 1298]. **After** [3493, 1193]. **Again** [2719]. **Age** [3458, 2551, 1706, 1676, 2152, 2833, 3488, 3053, 1477, 2257, 3041, 2415].

**Age-Dependent**

[3458, 1676, 2152, 2833, 1477].

**Age-Structured** [2551, 3488, 3053, 2415].

**Aggregates** [476]. **Aggregation**

[2935, 3350]. **Aging** [1916]. **AIDS**

[2832, 2918, 3236, 3041]. **Air** [2766]. **Airfoil**

[567, 259, 1514, 3070]. **Airfoils** [3211]. **Airy**

[242]. **Akers** [530]. **al** [3176]. **Albert** [639].

**Albert-Nelson** [639]. **Algebra** [1001, 1772].

**Algebraic** [129, 2924, 1741, 769, 845, 545,

2579, 121, 1654]. **Algebras**

[1001, 1002, 998, 1003, 1685, 996, 1005, 1006,

994, 1000, 1004, 999, 997, 995]. **Algorithm**

[1532, 1086, 2774, 2197, 1836, 505, 1188,

1380, 2112, 638, 985, 884, 1797, 1963, 1607,

283, 1550, 734, 860, 2689, 2690, 732].

**Algorithmic** [1573, 1775, 1776].

**Algorithms** [539, 1534, 1837, 3134, 1214,

1287, 1458, 253, 136, 2693, 2867, 2638, 2070,

3381, 1633, 1048, 214, 2656, 2780, 2168].

**Aligned** [3549]. **Alignment**

[2574, 2529, 2972, 2292]. **Alleles** [1502].

**Allelic** [1671]. **Allen** [1784, 3283].

**Allocating** [1914]. **Allocation** [149]. **Allow**

[878]. **Allowed** [2747]. **Alloy**

[3467, 3307, 2571]. **Alloys** [2293, 2302].

**Almost** [750, 871, 1704, 1630, 2718, 484, 762,

1043, 2012, 380, 266, 768, 2362, 1610, 797].

**Along** [1918, 2189, 1999, 868]. **Alpha**

[2909]. **Alphabetical** [781]. **also** [579]. **Alt**

[3480]. **Alternate** [71]. **Alternated** [124].

**Alternating** [1293, 1715, 2447]. **Ambient**

[1362]. **American** [1914]. **Among**

[2970, 1543, 2642]. **Ampère** [3449].

**Ampère/Transport** [3449]. **Amplification**

[1461]. **Amplifiers** [3259]. **Amplitude**

[1732, 509, 2110, 2234, 1522, 1346, 3344].

**Amplitudes** [2470, 2639]. **Analogue** [1958].

**Analogues** [2780]. **Analysing** [3029].

**Analysis**

[3419, 2919, 3144, 2383, 2339, 831, 2465, 760, 3250, 1911, 2523, 3387, 1634, 1740, 2807, 1221, 1258, 3505, 2461, 2158, 2985, 1077, 1222, 3319, 2887, 2550, 3101, 2134, 2663, 2750, 2828, 3086, 3124, 2924, 3100, 2755, 2352, 94, 2801, 3368, 2917, 2216, 2484, 1918, 3044, 117, 3128, 2590, 2870, 3008, 308, 2418, 3555, 3509, 3530, 1667, 1959, 2603, 2577, 3072, 2837, 3414, 2819, 1478, 2886, 3524, 2900, 3492, 2693, 1878, 2979, 1564, 2674, 2278, 2301, 2706, 2194, 2237, 2342, 2792, 2869, 3396, 1127, 3204, 3222, 3028, 2148, 2636, 2000, 2254, 3068, 1846, 2846, 2778, 2664, 590, 2008, 3381, 2528, 2824].

**Analysis** [2884, 2217, 561, 2749, 2945, 2321, 2597, 1024, 1862, 2940, 588, 2417, 3177, 601, 2001, 1710, 3560, 2711, 2844, 2821, 679, 1100, 2628, 3217, 2629, 2898, 2806, 1618, 1603, 3332, 2582, 274, 3408, 2659, 2499, 2562, 2469, 2742, 3448, 1763, 2279, 1544, 2433, 2285, 2286, 3069, 2146, 2003, 2358, 1931].

**Analytic** [211, 294, 202, 188, 3399, 228, 3229, 2002, 255, 2367, 520, 498, 2276, 2212, 507, 1289, 687].

**Analytical** [958, 2272, 1809, 1403, 1404, 3560, 2894, 3462, 3004, 2745]. **Analytically** [1193, 2497]. **Analyzing** [352]. **Angle** [2086]. **Angles** [2420, 2421, 2623]. **Angular** [168, 1295, 1703, 793]. **Anisotropic** [3407, 582, 945, 2221, 2936, 3190, 561, 944, 2688, 284, 3145, 3287]. **Annular** [2873].

**Annulus** [2206]. **Anomalies** [406, 2279, 2375]. **Anomalous** [3173].

**Antenna** [3489, 214]. **Anti** [1624, 426]. **Anti-Hermitian** [426]. **Anti-Plane** [1624]. **Antiplane** [3476]. **Antisymmetric** [3221, 538]. **Any** [3424]. **Aperture** [2709, 2462, 3575]. **Apex** [3549]. **Appearing** [1529]. **Appell** [96]. **Appl** [1789, 854, 2244, 988, 1721, 2731, 1546, 1512, 2639, 2252, 3043, 667, 1479, 38, 2539, 1885, 253, 1932, 534, 2309, 1585, 1101, 2405, 2044, 144, 2903, 1232, 2450, 3183, 1788, 1156, 792, 896, 1361, 1574, 1677, 2100, 2562, 138, 184].

**Applicability** [888]. **Applicable** [1172].

**Application** [2505, 3018, 2838, 2906, 1833, 1079, 2947, 2199, 519, 3538, 894, 3435, 1188, 2131, 484, 3417, 646, 255, 2819, 35, 1635, 2141, 246, 2580, 769, 1874, 955, 2784, 3397, 2431, 2432, 2791, 1607, 742, 2230, 587, 1075, 550, 182, 463, 214, 736, 388, 3240, 960, 758, 3216, 3465, 800, 828, 1602, 2995, 2240, 1884, 350, 2541, 1964, 2507, 1746]. **Applications** [2166, 2339, 3325, 1001, 1002, 211, 206, 871, 1558, 1961, 291, 202, 998, 307, 2030, 1411, 1713, 1293, 1557, 57, 203, 1397, 3328, 207, 2958, 568, 3118, 913, 2583, 1003, 204, 208, 2182, 3403, 2009, 3083, 209, 2214, 49, 996, 711, 1005, 1006, 994, 105, 1000, 1486, 288, 210, 163, 632, 2314, 1004, 999, 739, 997, 1806, 205, 1263, 756, 1540, 2259, 1062, 3070, 256, 45, 1680, 3437, 1674, 636, 2033, 222, 740, 428, 3501, 15, 190, 995, 1306, 212, 201, 213, 2544].

**Applied** [921, 41, 900, 2055, 542].

**Apportionment** [1555, 1766]. **Approach** [1192, 322, 130, 69, 897, 1398, 1464, 716, 2328, 2325, 2875, 3532, 2553, 1484, 676, 2741, 2530, 1908, 2135, 3460, 1133, 2218, 1770, 2616, 2446, 1272, 1095, 1891, 2022, 581, 1037, 2710, 205, 3427, 1476, 2993, 3177, 1734, 2894, 507, 513, 1482, 2640, 245, 1775, 1776, 2799, 3295, 3004].

**Approaches** [3042]. **Appropriate** [1545].

**Approximate** [1131, 1413, 1092, 1142, 461, 2112, 3238, 1498, 1279, 900, 2686, 1058, 710, 31, 2913].

**Approximately** [1413, 941].

**Approximating** [1464, 334, 1816, 3477, 2344, 23, 3205].

**Approximation** [460, 3574, 3293, 3321, 2192, 3404, 3037, 2763, 523, 3456, 1145, 3329, 3548, 3386, 3338, 99, 308, 925, 2002, 2038, 2067, 2814, 3417, 1614, 3478, 3260, 1097, 620, 402, 2599, 2707, 3038, 2790, 2836, 3570, 1575, 2165, 3254, 2005, 1786, 1607, 910, 3001, 3306, 1263, 1129, 398, 3474, 2332, 1332, 235, 1839, 819, 3378, 1018, 1618, 3185, 59, 438, 2385, 2456].

**Approximation-Theoretic** [2599].

**Approximations**

[3561, 2472, 2471, 3182, 157, 2812, 2436, 2135, 2190, 2733, 1970, 955, 862, 133, 3110, 1114, 3500, 1009, 1120, 3491, 586, 2365, 1392].

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