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Nelson H. F. Beebe  
University of Utah  
Department of Mathematics, 110 LCB  
155 S 1400 E RM 233  
Salt Lake City, UT 84112-0090  
USA

Tel: +1 801 581 5254  
FAX: +1 801 581 4148

E-mail: [beebe@math.utah.edu](mailto:beebe@math.utah.edu), [beebe@acm.org](mailto:beebe@acm.org),  
[beebe@computer.org](mailto:beebe@computer.org) (Internet)  
WWW URL: <https://www.math.utah.edu/~beebe/>

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## Title word cross-reference

**#CSP** [2264]. **#P** [1788].  
**#P-completeness** [1788].

$(1+1)$  [1683].  $(1, \lambda)$  [115].  $(18/11)n$  [2213].  
 $(\alpha, \beta)$  [2215].  $(n, k)$  [1557, 2392].  $(n, t)$  [1049].  
 $(p, k)$  [467].  $(r, p)$  [2357]. **\$-calculus** [1275].  
1 [220, 503]. 2  
[1425, 2304, 1890, 2253, 2333, 1287, 1302].  
 $2 < \alpha \leq 7/3$  [2163]. 3 [1628, 1771]. 3.4713  
[2387]. 4 [2260].  $5 + \epsilon$  [1968].  $5/2^+$  [90].  $5/4$   
[778].  $[0, 1]$  [503].  $*$  [58].  $\cdot$  [109].  $\infty$  [1543].  $p$   
[196].  $\alpha$  [2163, 132].  $b$  [1319].  $\beta$  [1456].  $c$   
[469].  $C^{bw}$  [2338].  $C^\infty$  [1502].  $d$   
[1245, 912, 1690, 817, 105].  $\Delta$  [439].  
 $D[\log_m D]$  [648].  $\ell_1$  [2296].  $\ell_\infty$  [2296, 1543].

$\ell_p$  [782].  $\epsilon$  [1183, 729].  $F_0$  [2005].  $FS$  [1741].  
 $H$  [1823].  $k$  [1116, 1805, 796, 803, 173, 781,  
1961, 1609, 775, 1989, 178, 1310, 630, 1311,  
951, 62, 1823, 1809, 2253, 2061, 2003, 1624,  
953, 1226, 1306, 1290, 2007].  $k > 2$  [173].  
 $K_{\max}, K_{\min}$  [541].  $\kappa$  [1836].  $L(2, 1)$   
[2243, 1635].  $L(d, s)$  [440].  $l_\infty$  [961].  $\lambda$   
[2281, 400, 1588, 562].  $\lambda\mu$  [1159].  $\log_d N$   
[547].  $LU$  [1217].  $m$   
[1760, 1324, 2258, 1745, 1226, 1306].  $\mathbf{N}^d$   
[1444].  $\mathbf{R}$  [417].  $\mathbf{R}^d$  [2062].  $\mathbf{Z}$  [1859].  $\mathcal{A}$   
[1200].  $\mathcal{C}$  [641].  $\mathcal{H}$  [1585].  $\mathcal{Q}$  [1034].  $\mathcal{T}^2$   
[1320].  $\mu$  [187, 400, 589, 359, 101].  $n$   
[1909, 958, 2079, 1451].  $n \geq 30$  [2169].  $\neq$   
[789].  $O(n^{1.75})$  [2243].  $\vee(n^2 \text{polylog} n)$  [1915].  
 $o(n \log n)$  [1313].  $\Omega$   
[1372, 974, 1655, 663, 826].  $\omega(1)$  [1752].  $P$   
[1527, 433].  $\phi$  [115].  $\pi$



- [35, 56, 1436, 143, 1440].  $\Pi_2^P$  [441].  $R$  [974].  $\sigma$  1 [385].  $1/2$  [2399].  
 [1233].  $t$  [893].  $\tilde{O}(n^\omega)$  [1553].  $\tilde{w} \times w$   
 [1502, 2338].  $\times$  [445].  $U$  [1768].  
 $x^k = z_1^{k_1} z_2^{k_2} \dots z_n^{k_n}$  [12].
- \*** [400]. **\*-** [400].
- achievement** [1881]. **-antipodal** [1049].  
**-approximation** [2387, 1968, 1287, 778].  
**-ary** [953]. **-automata** [826]. **-avoidable**  
 [1890]. **-batch** [1989]. **-bit** [1313]. **-calculi**  
 [101]. **-calculus** [35, 2281, 187, 56, 589, 359,  
 143, 562, 1440, 1436]. **-categories**  
 [1372, 1034]. **-center** [775, 62]. **-centroid**  
 [2357]. **-cliques** [469]. **-collapsing** [1451].  
**-coloring** [467, 439]. **-complete** [441].  
**-connected** [1311, 2253, 1226, 1306].  
**-context-free** [1624]. **-contextual** [893].  
**-counter** [220]. **-cube** [958]. **-dimensional**  
 [1752, 817, 105]. **-domains** [1741].  
**-dominating** [2253, 1306]. **-EA** [1683].  
**-edge** [1319]. **-estimation** [2005]. **-facility**  
 [1290]. **-flat** [1760]. **-free** [433, 1823]. **-game**  
 [1233]. **-iet** [1628]. **-in-a-row** [1310].  
**-induced** [1823]. **-integers** [1456].  
**-irreducible** [115]. **-labeling** [2243, 1635].  
**-labelings** [440]. **-language** [663]. **-limited**  
 [2079]. **-longest** [1809]. **-maximum-sums**  
 [796]. **-Median** [781]. **-nearest-neighbor**  
 [2061]. **-panconnectivity** [1324]. **-path**  
 [630]. **-points** [729]. **-polygons** [1768].  
**-power-free** [2163]. **-reducibilities** [1745].  
**-regular** [1245, 1624]. **-SA-ES** [115]. **-SAT**  
 [178]. **-semirings** [400]. **-spanner** [173].  
**-spanners** [2215]. **-splittable** [951]. **-star**  
 [1557, 2392]. **-Steiner** [2007]. **-strict** [1200].  
**-sub-recursive** [417]. **-subshifts** [1444].  
**-tape** [1909]. **-terms** [974]. **-theories** [1588].  
**-tonic** [2003]. **-transitions** [1183]. **-trees**  
 [1961]. **-tuple** [1226]. **-valued** [912, 1690].  
**-varieties** [641]. **-variety** [1655]. **-words**  
 [1502, 2338].
- .NET** [858].
- 2** [386]. **2-approximate** [1915].  
**2-approximation** [1963]. **2-categories**  
 [102]. **2-coloring** [2312]. **2-constraint** [431].  
**2-cyclic** [2362, 1991]. **2-interval**  
 [1322, 1541, 2123]. **2-letter** [1493].  
**2-median** [1979]. **2-radian** [1821].  
**2-radius** [1821]. **2005** [987, 1434]. **2006**  
 [1513, 2302]. **2nd** [1554]. **2nd-order** [1554].  
**2SAT** [74].
- 3-COL** [1716]. **3-coloring** [1554].  
**3-dimensional** [1818]. **3-regular** [1289].  
**3-SAT** [1025, 1810]. **3-tier** [835].  
**3-vertex-connectivity** [1012]. **380** [2399].  
**3D** [689]. **3SAT** [74].
- 4-coloring** [1414]. **4-cycles** [944]. **4-way**  
 [2040]. **400** [2398].
- 5** [898].
- 6-man** [446]. **60th** [2270, 1531, 2287].  
**64-bit** [503].
- 7/8** [2346]. **7/8-approximation** [2346].
- 8-approximation** [2346].
- abelian** [2260, 1184, 1890, 1911]. **absence**  
 [1139]. **Absolute** [1577, 317, 1296].  
**absoluteness** [1514]. **absorption** [372].  
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 [154, 2325, 672, 1685, 278, 356, 856, 1069,  
 163, 1084, 1926, 186, 159, 1677, 1864].  
**abstraction**  
 [593, 1729, 1784, 1436, 1695, 1029].  
**abstractions** [1698]. **Accelerating**  
 [2231, 2245]. **acceptance** [24, 72].  
**Accepting** [993, 1135, 2199, 1941, 1251].  
**Access** [1596, 1242, 1597, 1003, 159].  
**accessible** [1214]. **achievable** [2109].  
**achievement** [1881]. **achieving** [1016].



**achromatic** [1974, 773]. **acid** [1932].  
**Acknowledged** [1103]. **acknowledgment** [1983]. **acknowledgments** [947]. **across** [1793]. **action** [753, 59]. **action-based** [753, 59]. **Actions** [641, 916]. **actor** [1863].  
**Actors** [1925]. **Acyclic** [2364, 1565, 1179, 413, 1059, 2154, 971]. **ad** [1665, 1663, 157, 1664, 1103]. **ad-hoc** [1665, 1664]. **Adams** [2089]. **Adaptive** [1367, 1663, 2212, 1952, 2020, 909, 1098].  
**adaptiveness** [107]. **Addendum** [2399].  
**Adding** [164, 1038]. **Addition** [1127].  
**Additive** [381, 2331, 1323, 546]. **Additivity** [1772]. **address** [2378]. **addressable** [610].  
**addressing** [1857, 67]. **AdHoc** [2136]. **adic** [1193]. **Admissible** [501, 374]. **ADMs** [457, 1301]. **advances** [1682]. **Adversarial** [1960, 1231]. **adversaries** [224, 227]. **advice** [1676, 2018]. **Affine** [2055, 1389, 569, 1540].  
**affix** [1410]. **after** [1040]. **again** [1104].  
**against** [574]. **agent** [805]. **agents** [288, 1461, 1305, 1926, 1487, 515].  
**aggregate** [981]. **aggregation** [737, 310, 2022, 1875]. **AGh** [921]. **agnostic** [1110]. **agreeable** [1054]. **Agreement** [1300, 133, 2020, 1954, 985, 1050].  
**agreements** [473]. **al.** [1909]. **Alberto** [1531, 363]. **Alder** [43]. **algebra** [881, 141, 137, 140, 300, 882, 1469, 1275, 1074, 509, 360, 210, 2053, 579, 1440].  
**Algebraic** [939, 238, 682, 1475, 2321, 338, 957, 485, 1870, 1067, 579, 788, 497].  
**algebraicity** [2278]. **algebraization** [584].  
**Algebras** [1377, 514, 2366, 406, 2058, 1830, 584, 1100].  
**Algol** [1066, 1438]. **algorithm** [2113, 811, 553, 1168, 1109, 1963, 2376, 2162, 2387, 1700, 859, 640, 2295, 469, 128, 2308, 2362, 960, 711, 1143, 1426, 1663, 1783, 1869, 1968, 778, 1551, 1951, 2000, 1182, 1139, 329, 79, 1055, 1169, 1330, 1955, 1140, 2356, 966, 387, 1321, 1647, 2147, 723, 815, 1111, 1404, 2263, 909, 1721, 2021, 1267, 727, 2230, 1428, 265, 468, 728, 1976, 1771, 1132, 1451, 1991, 2293, 1454, 2138, 1287, 1503, 2110, 431, 1688, 462, 627, 1290, 2007, 693]. **Algorithmic** [1161, 1423, 1276, 720, 1169, 2192, 949, 253, 408]. **Algorithms** [1886, 1531, 1539, 1809, 1399, 130, 1856, 1226, 1101, 1973, 1129, 1777, 937, 386, 1148, 1906, 2313, 458, 2391, 433, 1683, 2019, 86, 2052, 859, 3, 402, 1979, 2062, 268, 1216, 2351, 796, 1648, 1801, 1606, 1179, 1607, 1114, 2242, 2023, 1219, 421, 781, 549, 836, 1309, 1609, 1853, 1173, 1676, 2309, 217, 833, 1908, 1284, 269, 511, 1629, 1311, 624, 2049, 773, 1499, 1025, 1982, 297, 2289, 1042, 1128, 84, 1699, 1927, 539, 542, 1631, 1221, 1532, 530, 1237, 1050, 694, 44, 2132, 2005, 1011, 2374, 1306, 710, 2063, 1774, 1997, 2368, 1547, 2397].  
**Aliased** [1800]. **Alice&Bob** [899].  
**alignment** [926, 966]. **all-** [132]. **all-ones** [1307]. **all-optical** [109]. **All-pairs** [1915, 1553]. **all-shortest-path** [1408].  
**all-to-all** [109]. **allocation** [950, 2100, 1180, 549, 1781, 1800]. **allowing** [388]. **almost** [2366, 2025, 1110].  
**almost-complete** [2025]. **alpha** [1193].  
**alpha-adic** [1193]. **Alphabet** [1313, 245, 2037, 2200, 1446].  
**Alphabet-independent** [1313].  
**alphabet-size** [2200]. **alphabets** [262, 1493, 1314, 2168, 1909, 75].  
**alternating** [194, 251, 170, 567].  
**Alternating-time** [567]. **Alternative** [889, 1728, 691]. **Amalgamating** [1923].  
**Amalgamation** [51]. **amazons** [451]. **amb** [35]. **Ambainis** [214]. **ambient** [666, 883, 37, 1596, 667]. **ambient-like** [666].  
**ambients** [1030, 97, 1597, 2016]. **ambiguity** [959, 352]. **Ambiguous** [101]. **amiable** [1430]. **among** [2002, 1487]. **amplification** [984, 2075]. **analog** [1063, 995, 996].  
**analyser** [274]. **analyses** [857]. **Analysis** [1652, 693, 447, 598, 1161, 1423, 1693, 897, 2322, 2192, 591, 1468, 197, 154, 898, 734, 268, 931, 2189, 2274, 595, 1373, 157, 222, 192, 1558, 1555, 1169, 1071, 1150, 1362, 1637,



723, 1534, 1404, 2253, 373, 1151, 568, 449, 903, 1132, 540, 1677, 2333, 225, 1463, 905, 1410, 332, 885, 462, 1811, 551, 1922, 2191]. **analytical** [1760, 1323]. **Analyzer** [902]. **Analyzing** [1072, 637, 1421, 1839]. **anarchy** [934]. **ancestor** [1553]. **ancestors** [1179]. **AND/OR** [1647]. **Angel** [1401, 465]. **animation** [1738]. **Anisotropic** [1850]. **annealing** [1330]. **annotated** [1620]. **anonymity** [2271]. **anonymous** [1814, 1611]. **answer** [1884]. **answering** [1001, 149]. **Ant** [322]. **antichain** [1147]. **antimagic** [1047]. **antimagicness** [1965]. **antipodal** [1049]. **antiport** [1021, 692]. **Antonio** [230]. **Any** [284, 612, 2183]. **Any-world** [284]. **Apartness** [1734]. **Apostolico** [1531]. **Application** [735, 34, 804, 1421, 581, 689, 1175, 1131]. **Applications** [2322, 1255, 870, 1291, 602, 1584, 1468, 1197, 979, 365, 1061, 1932, 1279, 1924, 2299, 251, 559, 1311, 2298, 1721, 601, 1410, 1500]. **Applied** [271]. **approach** [404, 974, 1850, 757, 919, 1626, 737, 949, 967, 883, 2377, 1156, 58, 705, 295, 328, 748, 1323, 60, 247, 2009, 1621, 2288, 152, 2239, 466, 962, 841]. **approaches** [957, 1933]. **approaching** [909]. **appropriateness** [480]. **Approximability** [1319, 288, 951, 68, 267]. **approximants** [358]. **Approximate** [2378, 548, 1871, 1149, 1915, 414, 2047, 311, 1452, 550, 1556]. **Approximately** [999, 1999]. **Approximating** [1053, 1484, 2312, 1541, 173, 1232, 1491, 1221, 2373, 818, 754, 2308, 175, 1057, 1543, 1426, 597, 2049, 1995]. **Approximation** [2106, 1648, 732, 2000, 836, 1309, 2309, 1989, 182, 624, 390, 1267, 1631, 1248, 536, 2248, 2353, 216, 85, 1481, 1963, 2101, 2387, 1987, 2308, 1216, 2351, 249, 1968, 778, 2150, 1114, 730, 1548, 1182, 1646, 1472, 2059, 942, 1298, 2346, 773, 1152, 1428, 1110, 1287, 1306, 1290, 2007, 2109, 1050]. **approximations** [1353, 618, 409]. **APX** [134, 216, 730]. **APX-** [216]. **APX-hard** [134]. **Arbitrage** [1793, 832]. **Arbitrary** [1814, 262, 205, 1967, 1298, 2099, 1756, 1431, 77]. **arboricity** [1224]. **architectural** [141]. **architecture** [55]. **Area** [1848, 2392]. **Area-time** [1848]. **areas** [2004]. **arising** [532]. **Arithmetic** [1127, 918, 502, 505, 506, 503, 1453, 1403, 138, 679]. **arithmetical** [1198, 207, 1907]. **Arity** [1704]. **arm** [1122, 627]. **armed** [2069]. **arrangements** [474]. **array** [1410]. **arrays** [2386, 548, 1313, 1537]. **arrivals** [2151]. **Artemis** [2105]. **artificial** [686, 1682]. **ary** [953]. **ASM** [161]. **AsmL** [303]. **Aspects** [64, 1240, 2271, 47, 1235, 1516, 312, 790, 2006]. **assembling** [1936]. **assembly** [2039, 1127, 1522, 1524, 2034, 1048, 1715, 721, 2030, 1523, 1940, 528]. **assertion** [54, 1830]. **assertion-based** [54]. **assignment** [288, 1168, 558, 1796, 1594, 438, 1267, 1556, 2104, 1590]. **assignments** [1501]. **associated** [1790, 1229, 767, 716, 1799]. **associativity** [1639, 1207]. **assumption** [227]. **assumptions** [284, 1966]. **asymmetric** [1959]. **Asymmetry** [775]. **Asymptotic** [2092, 723, 1481, 1347]. **Asynchronous** [2118, 628, 700, 1339, 2279, 1261, 139, 786, 1924, 168, 1814, 1424, 1052, 1957, 2333, 2130]. **Atomic** [2210]. **atoms** [1070]. **ATSP** [978]. **attack** [1900]. **attacks** [910, 905]. **Attila** [1759]. **attribute** [1344, 752]. **attribute-efficiently** [1344]. **attribute-element** [752]. **Attributed** [1096]. **auction** [1140]. **auction-based** [1140]. **auctions** [1480, 182]. **augmentation** [734, 1648, 2080]. **authentication** [226, 901, 10, 551]. **Author** [40, 61, 91, 112, 125, 144, 162, 183, 198, 221, 493, 759, 785]. **autocorrelation** [2114]. **Automata** [2155, 1328, 594, 2241, 974, 1350, 829, 2073, 5, 1085, 713, 2301, 2193, 1214, 636, 1727, 1813, 339, 1441, 244, 637, 456, 2057, 483, 698, 2199, 1492, 71, 1489, 823, 1208, 2168, 1909, 50, 2222, 1714, 695, 1178, 2202, 264, 9,



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