

References

- Abbott P 1990, private communication
- Abramowitz M and Stegun I, eds. 1970, *Handbook of Mathematical Functions*, Dover Publications, Inc. New York
- Ahmed M and Natajanan T 1983, *Discrete-time Signals and Systems* Reston Publishing, Inc.
- Aho A, Hopcroft J, and Ullman J 1974, *The Design and Analysis of Computer Algorithms*, Addison Wesley Publishing, Inc.
- Anderson J and Yamamoto B 1988, private communications from NeXT Software Group
- Andrews G 1986, *Trans. Amer. Math. Soc.* **293** 1 113-134
- Apostol T 1986, *Introduction to Analytic Number Theory*, Springer-Verlag
- Aref H and Flinchem E 1984, *J. Fluid Mech.* **148** 477-497
- Atkinson D, et. al. 1987, *Dynamic Models in Biochemistry*, Benjamin/Cummings Publishing, Inc.
- Beauchamp K and Yuen C 1979, *Digital Methods for Signal Analysis*, George Allen & Unwin Ltd., London
- Bense B 1990, private communication from San Diego SuperComputer Center Consultant's Group
- Berry M 1988, *Nonlinearity*, **1**(3) 399-407
- Borwein J and Borwein P 1987, *Pi and the AGM*, John Wiley & Sons, Inc.
- Brent R and Pollard J 1981, *Math. Comp.* **36** 627-630
- Buchler J, Perdang J, and Spiegel E, eds. 1985, *Chaos in Astrophysics*, D. Reidel Publishing Company, Amsterdam, Holland
- Buhler J and Crandall R 1989, in preparation

- Burrus C and Parks T 1985, *DFT/FFT and Convolution Algorithms*, John Wiley & Sons, Inc.
- Cejtin H, et. al. 1990, *MathTalk* software authors
- Cohen H and Lenstra H 1984, *Math. Comp.*, **42**, 297-330
- Crandall R 1990, *Computers in Physics*, Mar/Apr
- Crandall R and Buhler J 1987, *J. Phys. A: Math. Gen.* **20** 5497-5510
- Crandall R and Colgrove M 1990, *Scientific Applications for NeXT Computers*, Addison-Wesley Publishing, Inc. , in prep.
- Crandall R and Reno M 1982, *J. Math. Phys.* **23**(1) 64-70
- Cronin-Scanlon J 1981, *Mathematics of Cell Electrophysiology*, Marcel Dekker, Inc.
- Davis M 1982, *Computability and Unsolvability*, Dover Publications, Inc., New York
- Devaney R 1986, *An Introduction to Chaotic Dynamical Systems*, Benjamin/Cummings Publishing, Inc.
- Devaney R 1990, *Chaos, Fractals, and Dynamics*, Addison-Wesley Publishing, Inc.
- Doenias J and Crandall R 1989, ExpressionBuilder application authors
- Drazin P and Johnson R 1989, *Solitons: an introduction*, Cambridge University Press
- Dudman J 1990, private communication
- Edwards H 1974, *Riemann's Zeta Function*, Academic Press, New York
- Feynman R, Leighton R and Sands M 1979, *The Feynman Lectures in Physics, Volume II*, 6th ed., Addison-Wesley Publishing, Inc.
- Glasser M and Zucker I 1980, *Theoretical Chemistry: Advances and Perspectives*, **5** 67-139, Academic press, Inc.
- Goldberg, Schey and Schwartz 1967, *Am. J. Phys.* **35**(3)
- Goldstein H 1965, *Classical Mechanics*, Addison-Wesley Publishing, Inc.

- Gottfried K 1989, *Quantum Mechanics Volume I: Fundamentals*, Addison-Wesley Publishing, Inc.
- Gradshteyn I and Ryzhik I 1965, *Table of Integrals Series and Products*, Academic Press, Inc.
- Gray T 1989, RealTimeAlgebra application author
- Gray T 1990, private communication
- Hardy G and Wright E 1979, *An Introduction to the Theory of Numbers* Oxford University Press, New York
- Hasler M 1987, *Proceedings of the I.E.E.E.* **75**(8) 1009-1021
- Holden A, ed. 1986, *Chaos*, Princeton University Press, Princeton, New Jersey
- Jack J, Noble D, and Tsien R 1975, *Electric Current Flow in Excitable Cells*, Oxford University Press
- Junge D 1976, *Nerve and Muscle Excitation*, Sinauer Associates, Inc.
- Kaplan R 1988, private communication
- Keener J 1988, *Principles of Applied Mathematics*, Addison-Wesley Publishing, Inc.
- Kemeny J and Snell J 1983, *Finite Markov Chains*, Springer-Verlag, New York
- Kimura 1955, *Proc. Nat. Acad. Sci.*, **41**:144-150
- Knuth D 1969, *The Art of Computer Programming, Vol. 2: Seminumerical Algorithms*, Addison-Wesley Publishing, Inc.
- Koblitz N 1987, *A Course in Number Theory and Cryptography*, Springer-Verlag, New York
- Koblitz N, ed. 1987, *Number Theory Related to Fermat's Last Theorem*, Birkhauser
- Koonin S and Meredith D 1990, *Computational Physics: FORTRAN Version*, Addison-Wesley Publishing, Inc.
- Lenstra A, Lenstra H, Manasse M and Pollard J 1990, *STOC Proceedings*, to appear

Lenstra H 1986, Report 86-18, Mathematisch Instituut, Universiteit van Amsterdam

Lightman A et. el. 1975, *Problem Book in Relativity and Gravitation*, Princeton University Press, Princeton, New Jersey

Lydgate C and Crandall R 1989, CircuitBuilder application authors

Maeder R 1990, *Programming in Mathematica*, Addison-Wesley Publishing, Inc.

Manasse M and Lenstra A 1990, general network announcement of
15 June 1990

Misner T, Thorne K, and Wheeler J 1973, *Gravitation*,
W. H. Freeman and Company, new York

Montgomery P 1987, *Math. Comp.* **48** 243-264

Morrison M and Brillhart J 1975, *Math. Comp.* **29** 183-205

Parker L and Christenson S 1989, private communication from S.C.

Parks T and Burrus C 1987, *Digital Filter Design*, John Wiley & Sons, Inc.,
New York

Pomerance C, Smith J, and Tuler R 1988, *SIAM J. Comput.*, **17** 387-403

Press W, et. al. 1988, *Numerical Recipes in C: The Art of Scientific
Programming*, Cambridge University Press

Quinn R 1990, *Personal Engineering and Instrument News*, March, 39-44

Ram-Mohan L, et. al. 1990, *Computers in Physics* Jan/Feb

Ribenboim P 1988, *The Book of Prime Number Records*, Springer-Verlag

Riesel H 1985, *Prime Numbers and Computer Methods for Factorization*,
Birkhauser Boston, Inc.

Russell P 1986, *Genetics*, Little, Brown & Company (Canada) Limited

SawHill B 1990, private communication

Schiff L 1968, *Quantum Mechanics 3rd. ed.*, McGraw-Hill, Inc.

- Schroeder M 1986, *Number Theory in Science and Communication*,
2nd ed., Springer-Verlag
- Skiena S 1990, *Implementing Discrete Mathematics: Combinatorics and
Graph Theory with Mathematica*, Addison-Wesley Publishing, Inc.
- Strum R and Kirk D 1988, *Discrete Systems and Digital Signal Processing*,
Addison-Wesley Publishing, Inc.
- Stump D 1986, *Am. J. Phys.* **54**(12) 1096-1100
- Tanner J and Wagstaff S Jr. 1987, *Math. Comp.* **48** 341-350
- Titschmarsh E. 1967, *The Theory of the Riemann Zeta Function*,
Oxford University Press
- Truhlar D, ed. 1988, *Mathematical Frontiers in Computational Chemical
Physics*, Springer-Verlag
- Wagstaff S Jr. 1978, *Math. Comp.* **32**(142) 583-591
- Wiener N 1958, *The Fourier Integral and Certain of its Applications*,
Dover Publications, Inc., New York
- Wolfram S 1988 *Mathematica: A System for Doing Mathematics by Computer*,
Addison-Wesley Publishing, Inc.
- Wu S 1987, *Proceedings of the I.E.E.E.* **75**(8) 1022-1057
- Zucker I 1984, *SIAM J Math Ann* **15** 2 406-413