
Reference and Book List

The *Reference* section of the Notices is intended to provide the reader with frequently sought information in an easily accessible manner. New information is printed as it becomes available and is referenced after the first printing. As soon as information is updated or otherwise changed, it will be noted in this section.

Upcoming Deadlines

September 1, 1999: Deadline for receipt of applications for the AWM workshop for women graduate students and postdocs. For more information, contact the Workshop Selection Committee, Association for Women in Mathematics, 4114 Computer & Space Sciences Building, University of Maryland, College Park, MD 20742-2461; telephone 301-405-7892; e-mail: awm@math.umd.edu.

September 15, 1999: Deadline for submission of proposals for the NSF Midcareer Methodological Opportunities fellowships. For more information see "Mathematics Opportunities" in this issue.

October 1, 1999: Deadline for receipt of proposals for the Office of Naval Research Young Investigator Program. For more information and instructions for proposal preparation, see the ONR Web site, http://www.onr.navy.mil/sci_tech/information/mathematical/.

October 1, 1999: Deadline for receipt of nominations for the AWM Louise Hay Award. For more information call the AWM at 301-405-7892 or send e-mail to awm@math.umd.edu.

October 1, 1999: Deadline for receipt of nominations for the AWM Alice T. Schafer Mathematics Prize. For more information contact the Alice T. Schafer Award Selection Committee, Association for Women in Mathematics, 4114 Computer & Space

Sciences Building, University of Maryland, College Park, MD 20742-2461; telephone 301-405-7892; e-mail: awm@math.umd.edu.

October 1, 1999: Deadline for applications for NSF/AWM Travel Grants for Women. For more information see the AWM Web site, <http://www.awm-math.org/travelgrants.html>; or telephone 301-405-7892; or send e-mail to awm@math.umd.edu. Also

Where to Find It

A brief index to information that appears in this and previous issues of the *Notices*.

AMS e-mail addresses
November 1998, p. 1369

AMS Ethical Guidelines
June 1995, p. 694

AMS officers and committee members
October 1998, p. 1209

Board on Mathematical Sciences and Staff
April 1999, p. 479; June/July 1999, p. 696

Bylaws of the American Mathematical Society
November 1997, p. 1339

Classification of degree-granting departments of mathematics
January 1997, p. 48

Mathematical Sciences Education Board and Staff

May 1998, p. 632; February 1999, p. 244

Mathematics Research Institutes contact information

May 1999, p. 580; August 1999, p. 804

National Science Board

March 1999, p. 361

NSF Mathematical and Physical Sciences Advisory Committee
March 1999, p. 362

Officers of the Society 1998 and 1999 (Council, Executive Committee, Publications Committees, Board of Trustees)
May 1999, p. 583

Program officers for federal funding agencies (DoD, DoE, NSF)
October 1998, pp. 1182-1184; February 1999, p. 244

see “Mathematics Opportunities” in this issue.

October 15, 1999: Deadline for proposals for the National Security Agency Young Investigators’ Grants; Standard Grants; Senior Investigators’ Grants; and Conferences, Workshops, and Special Situations Grants. For more information see “Mathematics Opportunities” in this issue.

November 1, 1999: Deadline for applications for the Fulbright Scholar Program international education and academic administrator seminars. For more information contact the USIA Fulbright Scholar Program, Council for International Exchange of Scholars, 3007 Tilden Street, NW, Suite 5L, Box GNEWS, Washington, DC 20008-3009; telephone 202-686-7877; World Wide Web: <http://www.cies.org/>.

January 1, 2000: Deadline for applications for the Fulbright Scholar Program NATO advanced research fellowships and institutional grants. For more information, contact the USIA Fulbright Scholar Program, Council for International Exchange of Scholars, 3007 Tilden Street, NW, Suite 5L, Box GNEWS, Washington, DC 20008-3009; telephone 202-686-7877; World Wide Web: <http://www.cies.org/>.

January 15, 2000: Deadline for applications for NIST/NRC Postdoctoral Research Associateships Program. Further information may be obtained from the NIST Web site, <http://www.nist.gov/oiaa/postdoc.htm>, or by contacting Joy Brooks, Information Specialist, NIST, telephone 301-975-3071; or Jack J. Hsia, Chief of Academic Affairs, NIST, telephone 301-975-3067; or write to the National Research Council, Associateship Programs-TJ2114, 2101 Constitution Avenue, NW, Washington, DC 20418, telephone 202-334-2760.

February 1, 2000: Deadline for applications for NSF/AWM Mentoring Travel Grants for Women. For more information see “Mathematics Opportunities” in this issue.

February 1, May 1, October 1, 2000: Deadline for applications for NSF/AWM Travel Grants for Women. For more information see “Mathematics Opportunities” in this issue.



Book List

The *Book List* highlights books that have mathematical themes and hold appeal for a wide audience, including mathematicians, students, and a significant portion of the general public. When a book has been reviewed in the Notices, a reference is given to the review. Generally the list will contain only books published within the last two years, though exceptions may be made in cases where current events (e.g., the death of a prominent mathematician, coverage of a certain piece of mathematics in the news) warrant drawing readers’ attention to older books. Suggestions for books to include on the list may be sent to the Managing Editor, e-mail: notices@ams.org.

Abraham Robinson: The Creation of Nonstandard Analysis, a Personal and Mathematical Odyssey, by Joseph Warren Dauben. Princeton University Press, 1998. ISBN 0-691-05911-X.

The Algorithmic Beauty of Sea Shells (Virtual Laboratory), by Hans Meinhardt, Przemyslaw Prusinkiewicz, and Deborah R. Fowler. Springer-Verlag, 1998. ISBN 3-540-63919-5.

The Applicability of Mathematics As a Philosophical Problem, by Mark Steiner. Harvard University Press, 1998. ISBN 0-674-04097-X.

Challenges, by Serge Lang. Springer-Verlag, 1998. ISBN 0-387-94861-9.

Drawbridge Up: Mathematics—A Cultural Anathema (Zugbrücke ausser Betrieb: Die Mathematik im Jenseits der Kultur), by Hans Magnus Enzensberger. A. K. Peters, 1999. ISBN 1-56881-099-7.

e: The Story of a Number, by Eli Maor. Paperback edition, Princeton University Press, 1998. ISBN 0-691-05854-7.

The Elegant Universe: Superstrings, Hidden Dimensions, and the Quest for the Ultimate Theory, by Brian Greene.

W. W. Norton & Company, February 1999. ISBN 0-393-04688-5.

Emergence: From Chaos to Order, by John Holland. Perseus Press, 1998. ISBN 0-201-14943-5.

The Feynman Processor, by Gerard J. Milburn and Paul Davies. Helix Books, Perseus, 1998. ISBN 0-738-20016-6.

Fragile Dominion: Complexity and the Commons, by Simon Levin. Perseus Books, June 1999. ISBN 0-738-20111-1.

Geometry Civilized: History, Culture, and Technique, by J. L. Heilbron. Oxford University Press, 1998. ISBN 0-19-850078-5.

Goodbye, Descartes: The End of Logic and the Search for a New Cosmology of the Mind, by Keith Devlin. John Wiley & Sons, 1998. ISBN 0-471-14216-6.

The Importance of Being Fuzzy and Other Insights from the Border between Math and Computers, by Arturo Sangalli. Princeton University Press, December 1998. ISBN 0-691-00144-8.

The Number Sense: How the Mind Creates Mathematics, by Stanislas Dehaene. Oxford University Press, 1997. ISBN 0-195-11004-8.

An Imaginary Tale: The Story of $\sqrt{-1}$, by Paul J. Nahin. Princeton University Press, 1998. ISBN 0-691-02795-1.

In the Light of Logic, by Solomon Feferman. Oxford University Press, 1998. ISBN 0-19-508030-0.

The Invention of Infinity: Mathematics and Art in the Renaissance, by J. V. Field. Oxford University Press, 1997. ISBN 0-198-52394-7.

Jacques Hadamard, A Universal Mathematician, by Vladimir Maz’ya and Tatyana Shaposhnikova. AMS/London Mathematical Society, 1998. ISBN 0-8218-0841-9.

James Joseph Sylvester: Life and Work in Letters, by Karen Hunger Parshall. Oxford University Press, 1998. ISBN 0-198-50391-1.

The Jungles of Randomness: A Mathematical Safari, by Ivars Peterson. Paperback edition, John Wiley & Sons, 1998. ISBN 0-471-29587-6. (Reviewed June/July 1999.)

Knowing and Teaching Elementary Mathematics: Teachers’ Understanding of Fundamental Mathematics in

- China and the United States*, by Liping Ma. Lawrence Erlbaum Publishers, 1999. ISBN 0-8058-2908-3 (cloth), 0-8058-2909-1 (paper). (Reviewed in this issue.)
- The Language of Mathematics: Making the Invisible Visible*, by Keith Devlin. W. H. Freeman and Company, 1998. ISBN 0-716-73379-X.
- Life by the Numbers*, by Keith Devlin. John Wiley & Sons, 1998. ISBN 0-471-24044-3.
- The Magical Maze: Seeing the World through Mathematical Eyes*, by Ian Stewart. John Wiley & Sons, 1998. ISBN 0-471-19297-X.
- The Mathemagician and the Pied Puzzler: A Collection in Tribute to Martin Gardner*, edited by Elwyn Berlekamp and Tom Rodgers. A. K. Peters, 1999. ISBN 1-568-81075-X.
- A Mathematical Mystery Tour: Discovering the Truth and Beauty of the Cosmos*, by A. K. Dewdney. John Wiley & Sons, 1999. ISBN 0-471-23847-3.
- Mathematical Reasoning: Analogies, Metaphors, and Images*, edited by Lyn English. Lawrence Erlbaum Associates, 1997. ISBN 0-805-81979-7. (Reviewed May 1999.)
- Mathematics for the Curious*, by Peter M. Higgins. Oxford University Press, 1998. ISBN 0-192-88072-1.
- Mathematics: From the Birth of Numbers*, by Jan Gullberg. W. W. Norton and Company, 1997. ISBN 0-393-04002-X.
- The Mathematics of Ciphers; Number Theory and RSA Cryptography*, by S. C. Coutinho. A. K. Peters, 1998. ISBN 1-568-81082-2.
- Mathematics without Borders: A History of the International Mathematical Union*, by Olli Lehto. Springer-Verlag, February 1998. ISBN 0-387-98358-9.
- Modern Mathematics in the Light of the Fields Medals*, by Michael Monastyrsky. A. K. Peters, 1997. ISBN 1-568-81065-2.
- The Moment of Proof: Mathematical Epiphanies*, by Donald C. Benson. Oxford University Press, March 1999. ISBN 0-195-11721-2.
- Moral Calculations: Game Theory, Logic, and Human Frailty*, by László Mészáros. Copernicus-Springer Verlag, 1998. ISBN 0-387-98419-4.
- My Brain Is Open: The Mathematical Journeys of Paul Erdős*, by Bruce Schechter. Simon & Schuster, 1998. ISBN 0-684-84635-7.
- Mystic, Geometer, and Intuitionist: The Life of L. E. J. Brouwer*, by Dirk Van Dalen. Oxford University Press, 1999. ISBN 0-198-50297-4.
- New Directions in the Philosophy of Mathematics: An Anthology*, Thomas Tymoczko, Editor. Princeton University Press, revised edition, 1998. ISBN 0-691-03498-2.
- The Number Devil*, by Hans Magnus Enzensberger. Metropolitan Books, 1998. ISBN 0-805-05770-6.
- Once upon a Number: The Hidden Mathematical Logic of Stories*, by John Allen Paulos. Basic Books, 1998. ISBN 0-465-05158-8. (Reviewed in this issue.)
- Philosophy of Mathematics: An Introduction to a World of Proofs and Pictures*, by James Robert Brown. Routledge, 1998. ISBN 0-415-12274-0.
- Proofs from THE BOOK*, by Martin Aigner and Günter Ziegler. Springer-Verlag, 1998. ISBN 3-540-63698-6. (Reviewed August 1999.)
- The Queen of Mathematics: A Historically Motivated Guide to Number Theory*, by Jay R. Goldman. A. K. Peters, 1998. ISBN 1-568-81006-7.
- Randomness*, by Deborah Bennett. Harvard University Press, 1998. ISBN 0-674-10745-4.
- Reasoning with the Infinite: From the Closed World to the Mathematical Universe*, by Michel Blay (translated by M. B. DeBevoise). University of Chicago Press, 1998. ISBN 0-226-05834-4.
- Strength in Numbers*, by Sherman Stein. John Wiley & Sons, 1996. ISBN 0-471-152528-8. (Reviewed May 1999.)
- Tracking the Automatic Ant, and Other Mathematical Explorations*, by David Gale. Springer-Verlag, 1998. ISBN 0-387-98272-8.
- The Universe and the Teacup: The Mathematics of Truth and Beauty*, by K. C. Cole. Harcourt Brace, 1998. ISBN 0-151-00323-8. (Reviewed March 1999.)
- What is Mathematics, Really?*, by Reuben Hersh. Oxford University Press, 1997. ISBN 0-19-511368-3.
- What's Happening in the Mathematical Sciences, 1998-1999*, by Barry Cipra. AMS, 1999. ISBN 0-8218-0766-8.
- Why Do Buses Come in Threes?*, by Rob Eastaway and Jeremy Wyndham. John Wiley & Sons, 1999. ISBN 0-471-34756-6.
- The World according to Wavelets*, by Barbara Burke Hubbard. A. K. Peters, second edition, 1999. ISBN 1-568-81072-5.