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# 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

**March 1, 1999:** Deadline for applications for Enhancing Diversity in Graduate Education (EDGE), the Bryn Mawr College summer program for women. For details, consult the Web site <http://www.brynmawr.edu/Acads/Math/edge.html>, or contact EDGE Program, Box 270, Spelman College, Atlanta, GA 30314.

**March 30, 1999:** Deadline for post-marked nominations for the Maria Mitchell Women in Science Award. For details, see "Mathematics Opportunities" in this issue.

**March 31, 1999:** Deadline for applications for the Mittag-Leffler Institute postdoctoral fellowships. For details, consult the World Wide Web at <http://www.ml.kva.se/>.

**April 5, 1999:** Deadline for submission of proposals for Short-Term Project Development grants from the Office of International Affairs of the National Research Council. For more information, see "Mathematics Opportunities" in this issue.

**April 12, 1999:** Deadline for proposals for the 2000 NSF-CBMS Regional Conferences. For more information, see "Mathematics Opportunities" in this issue.

**April 16, 1999:** Deadline for applications for Project NExT fellowships. For more information, see "Mathematics Opportunities" in this issue.

**July 19, 1999:** Deadline for proposals for the second VIGRE Grant competition. For more information, consult the NSF Web site at

<http://www.nsf.gov/cgi-bin/getpub?nsf9916/>.

**July 30, 1999:** Deadline for submission of proposals for Long-Term Project Development grants from the Office of International Affairs of the National Research Council. For more information, see "Mathematics Opportunities" in this issue.

## National Science Board

The National Science Board (NSB) serves as a national science policy advisor to the president and the

### 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

May 1998, p. 632

#### 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

#### Mathematics Research Institutes contact information

May 1997, p. 598

#### National Science Board

March 1999, p. 361

#### NSF Mathematical and Physical Sciences Advisory Committee

March 1999, p. 362

#### Officers of the Society 1997 and 1998 (Council, Executive Committee, Publications Committees, Board of Trustees)

May 1998, p. 625

#### Program officers for federal funding agencies (DoD, DoE, NSF)

October 1998, pp. 1182-84, February 1999, p. 244

Congress and as the governing body for the National Science Foundation. The term of service on the NSB is six years.

Following are the names, titles, and affiliations of the current NSB members.

**John A. Armstrong**, IBM Vice President for Science and Technology (retired).

**Marta Cehelsky**, Executive Officer, National Science Board, National Science Foundation (ex officio).

**Mary K. Gaillard**, Professor of Physics, University of California, Berkeley.

**Sanford D. Greenberg**, Chairman and CEO, TEI Industries, Inc.

**M. R. C. Greenwood**, Chancellor, University of California, Santa Cruz.

**Charles E. Hess**, Professor Emeritus and Special Assistant to the Provost, Department of Environmental Horticulture, University of California, Davis.

**John E. Hopcroft**, Joseph Silbert Dean of Engineering, Cornell University.

**Stanley V. Jaskolski**, Vice President, Eaton Corporation.

**Eamon M. Kelly**, Tulane University.

**Neal F. Lane**, Director, National Science Foundation (ex officio).

**Jane Lubchenco**, Wayne and Gladys Valley Professor of Marine Biology and Distinguished Professor of Zoology, Oregon State University.

**Shirley M. Malcom**, Head, Directorate for Education and Human Resources Programs, American Association for the Advancement of Science.

**Eve L. Menger**, Corning Inc. (retired).

**Claudia I. Mitchell-Kernan**, Vice Chancellor, Academic Affairs, and Dean, Graduate Division, University of California, Los Angeles.

**Diana S. Natalicio**, President, University of Texas at El Paso.

**Vera C. Rubin**, Research Staff, Astronomy, Department of Terrestrial Magnetism, Carnegie Institution of Washington, DC.

**Robert M. Solow**, Institute Professor Emeritus of Economics, Massachusetts Institute of Technology.

**Bob H. Suzuki**, President, California State Polytechnic University, Pomona.

**Richard Tapia**, Noah Harding Professor of Computational and Applied Mathematics, Rice University.

**Warren M. Washington**, Senior Scientist and Section Head, National Center for Atmospheric Research.

**John A. White Jr.**, Chancellor, University of Arkansas, Fayetteville.

### MPS Advisory Committee

Following are the names and affiliations of the members of the Advisory Committee for Mathematical and Physical Sciences of the National Science Foundation. The date of the expiration of each member's term is given after his or her name.

**George Castro** (ex officio), San Jose State University.

**Praveen Chaudhari** (10/99), IBM T. J. Watson Research Center.

**Alexandre J. Chorin** (10/01), University of California, Berkeley.

**Lila M. Gierasch** (10/01), University of Massachusetts, Amherst.

**Judy Giordan** (10/99), International Flavors and Fragrances.

**David L. Goodstein** (10/99), California Institute of Technology.

**Norman Hackerman** (10/00), Robert A. Welch Foundation.

**Jiri Jonas** (10/00), Beckman Institute.

**Bernard V. Houry** (10/01), American Association of Physics Teachers.

**Thomas B. W. Kirk** (10/01), Brookhaven National Laboratory.

**Michael Knotek** (10/00), U. S. Department of Energy.

**James S. Langer** (10/99), University of California, Santa Barbara.

**Richard McCray** (10/00), University of Colorado.

**Harry Morrison** (10/99), Purdue University.

**Gerard Mourou** (10/00), University of Michigan.

**J. Anthony Tyson** (10/01), Lucent Technologies.

**Isiah M. Warner** (10/99), Louisiana State University.

**Carol S. Wood** (10/00), Wesleyan University.

The address is: Directorate for Mathematical and Physical Sciences, National Science Foundation, 4201 Wilson Boulevard, Suite 1005, Arlington, VA 22230. The Web address is <http://www.nsf.gov/home/mps/>.

### 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](mailto:notices@ams.org).*

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

*Against the Gods: The Remarkable Story of Risk*, by Peter L. Bernstein. John Wiley & Sons, 1996. ISBN 0-471-12104-5. (Reviewed January 1999)

*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 Apprenticeship of a Mathematician*, by André Weil, translation by Jennifer Gage. Birkhäuser Boston, 1992. ISBN 0-817-62650-6.

*A Beautiful Mind: A Biography of John Forbes Nash, Jr.*, by Sylvia Nasar. Simon & Schuster, 1998. ISBN 0-684-81906-6. (Reviewed November 1998)

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

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

*Fashionable Nonsense: Postmodern Intellectuals' Abuse of Science*, by Alan Sokal and Jean Bricmont. English version of *Impostures Intellectuelles* (reviewed August 1998), St. Martin's Press, 1998. ISBN 0-312-19545-1.

*Fermat's Enigma: The Epic Quest to Solve the World's Greatest Mathematical Problem*, by Simon Singh. Paperback edition, Bantam Books, 1998. ISBN 0-385-49362-2. (Reviewed November 1997)

*Fermat's Last Theorem: Unlocking the Secret of an Ancient Mathematical Problem*, by Amir D. Aczel. Paperback

edition, Delacorte Trade Paper, 1997. ISBN 0-385-31946-0.

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

*Geometry Civilized: History, Culture, and Technique*, by John 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.

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

*The Jungles of Randomness: A Mathematical Safari*, by Ivars Peterson. Paperback edition, John Wiley & Sons, 1998. ISBN 0-471-29587-6.

*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.

*Logical Dilemmas: The Life and Work of Kurt Gödel*, by John W. Dawson Jr. AK Peters, 1997. ISBN 1-56881-025-3.

*The Man Who Loved Only Numbers: The Story of Paul Erdős and the Search for Mathematical Truth*, by Paul Hoffman. Hyperion, 1998. ISBN 0-786-86362-5. (Reviewed October 1998)

*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, Peter Hilton. W. W. Norton and Company, 1997. ISBN 0-393-04002-X.

*Modern Mathematics in the Light of the Fields Medals*, by Michael Monastyrsky. AK Peters, 1997. ISBN 1-568-81065-2.

*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 Schecter. Simon & Schuster, 1998. ISBN 0-684-84635-7.

*The Number Devil*, by Hans Magnus Enzensberger. Metropolitan Books, 1998. ISBN 0-805-05770-6.

*Paul Dirac: The Man and His Work*, by Abraham Pais, Maurice Jacob, David Olive, and Michael Atiyah. Cambridge University Press, 1998. ISBN 0-521-58382-9. (Reviewed October 1998)

*Philosophy of Mathematics: An Introduction to a World of Proofs and Pictures*, by James Robert Brown. Routledge, 1998. ISBN 0-415-12274-0.

*The Pleasures of Counting*, by T. W. Körner. Cambridge University Press, 1997. ISBN 0-521-56087-X; 0-521-56823-4. (Reviewed March 1998)

*Polyhedra*, by Peter Cromwell. Cambridge University Press, 1997. ISBN 0-521-55432-2. (Reviewed September 1998)

*Privacy on the Line: The Politics of Wiretapping and Encryption*, by Whitfield Diffie and Susan Landau. MIT Press, 1997. ISBN 0-262-04167-7. (Reviewed June/July 1998)

*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.

*The Universe and the Teacup: The Mathematics of Truth and Beauty*, by K. C. Cole. Harcourt Brace, 1998. ISBN 0-151-00323-8. (Reviewed in this issue)

*Tracking the Automatic Ant, and Other Mathematical Explorations*, by David Gale. Springer-Verlag, 1998. ISBN 0-387-98272-8.

*Visual Explanations—Images and Quantities, Evidence and Narrative*, by Edward R. Tufte. Graphics Press, 1997. ISBN 0-961-39212-6. (Reviewed January 1999)

*What Is Mathematics, Really?*, by Reuben Hersh. Oxford University Press, 1997. ISBN 0-19-511368-3.

*Women in Mathematics: The Addition of Difference*, by Claudia Henrion. Indiana University Press, 1997. ISBN 0-253-33279-6. (Reviewed May 1998)