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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.

## Contacting the Notices

The preferred method for contacting the Notices is electronic mail. The editor is the person to whom to send articles and letters for consideration. Articles include feature articles, memorial articles, book reviews and other communications, columns for "Another Opinion", and "Forum" pieces. The editor is also the person to whom to send news of unusual interest about other people's mathematics research.

The managing editor is the person to whom to send items for "Mathematics People", "Mathematics Opportunities", "For Your Information", "Reference and Book List", and "Mathematics Calendar". Requests for permissions, as well as all other inquiries, go to the managing editor.

The electronic-mail addresses are [notices@math.sunysb.edu](mailto:notices@math.sunysb.edu) in the case of the editor and [notices@ams.org](mailto:notices@ams.org) in the case of the managing editor. The fax numbers are 631-751-5730 for the editor and 401-331-3842

for the managing editor. Postal addresses may be found in the masthead.

## Upcoming Deadlines

**April 18, 2000:** Proposals for 2001 NSF-CBMS Regional Conferences. See [http://www.maa.org/cbms/nsf/2000\\_conf.htm](http://www.maa.org/cbms/nsf/2000_conf.htm) or contact the Conference Board of the Mathematical Sciences, 1529 18th St. NW, Washington, DC 20036-1385; telephone: 202-293-1170; fax: 202-293-3412; e-

mail: [kolbe@math.georgetown.edu](mailto:kolbe@math.georgetown.edu) or [rosier@math.georgetown.edu](mailto:rosier@math.georgetown.edu).

**April 28, 2000:** Nominations for the Maria Mitchell Women in Science Award. Contact Maria Mitchell Association, 2 Vestal Street, Nantucket, MA 02554; telephone: 508-228-9198; or see <http://www.mmo.org/>.

**May 1 and October 1, 2000:** Applications for NSF/AWM Travel Grants for Women. See <http://www.awm-math.org/travelgrants.html>; telephone: 301-405-7892; e-mail: [awm@math.umd.edu](mailto:awm@math.umd.edu).

## Where to Find It

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

**AMS e-mail addresses**  
*November 1999, p. 1269*

**AMS Ethical Guidelines**  
*June 1995, p. 694*

**AMS officers and committee members**  
*November 1999, p. 1271*

**Board on Mathematical Sciences and Staff**  
*April 2000, p. 495*

**Bylaws of the American Mathematical Society**  
*November 1999, p. 1252*

**Information for Notices authors**  
*January 2000, p. 69*

**Mathematical Sciences Education Board and Staff**  
*April 2000, p. 495*

**Mathematics Research Institutes contact information**  
*May 1999, p. 580; August 1999, p. 804*

**National Science Board**  
*January 2000, p. 71*

**NSF Mathematical and Physical Sciences Advisory Committee**  
*March 2000, p. 381*

**Officers of the Society 1999 and 2000 (Council, Executive Committee, Publications Committees, Board of Trustees)**  
*May 2000, p. 591*

**Program officers for federal funding agencies (DoD, DoE, NSF)**  
*October 1999, p. 1075; November 1999, p. 1247*

**July 31, 2000:** Nominations for the Monroe Martin Prize. Contact J. A. Yorke, Director, Institute for Physical Sciences and Technology, University of Maryland, College Park, MD 20742.

**August 15, 2000:** Third competition for NRC Research Associateships. See <http://www.national-academies.org/rap>, or contact the National Research Council, Associateship Programs (TJ 2114/D3), 2101 Constitution Avenue, NW, Washington, DC 20418; telephone: 202-334-2760; fax: 202-334-2759; e-mail: rap@nas.edu.

**September 1, 2000:** Applications for the AWM 2001 Workshop for Women Graduate Students and Postdocs. See "Mathematics Opportunities" in this issue.

**October 16, 2000:** Applications for NSF Mathematical Sciences Postdoctoral Research Fellowships. 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.

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

*The Arithmetic of Life*, by George Shaffner. Ballantine Books, August 1999. ISBN 0-345-42631-2.

*The Code Book: The Evolution of Secrecy from Mary, Queen of Scots to Quantum Cryptography*, by Simon Singh. Doubleday, October 1999. ISBN 0-385-49531-5. (Reviewed March 2000.)

*Complexity and Information*, by J. F. Traub and Arthur G. Werschulz. Cambridge University Press, December 1998. ISBN 0-52148-005-1 (hardcover), 0-521-48506-1 (paperback).

*Cryptonomicon*, by Neal Stephenson. Avon Books, May 1999. ISBN 0-380-97346-4. (Reviewed December 1999.)

*The Eightfold Way: The Beauty of Klein's Quartic Curve*, edited by Silvio Levy. Cambridge University Press, March 1999. ISBN 0-521-66066-1.

*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.

*Euclid: The Creation of Mathematics*, by Benno Artmann. Springer-Verlag, June 1999. ISBN 0-387-98423-2.

*Fermat's Last Theorem for Amateurs*, by Paulo Ribenboim. Springer-Verlag, February 1999. ISBN 0-387-98508-5. (Reviewed April 1999.)

*Five More Golden Rules: Knots, Codes, Chaos and Other Great Theories of 20th Century Mathematics*, by John L. Casti. John Wiley & Sons, February 2000. ISBN 0-471-32233-4.

*Fragile Dominion: Complexity and the Commons*, by Simon Levin. Perseus Books, June 1999. ISBN 0-738-20111-1. (Reviewed in this issue.)

*A History of the Circle: Mathematical Reasoning and the Physical Universe*, by Ernest Zebrowski Jr. Rutgers University Press, August 1999. ISBN 0-813-52677-9.

*Imaginary Numbers: An Anthology of Marvelous Mathematical Stories, Diversions, Poems, and Musings*, edited by William Frucht. John Wiley & Sons, October 1999. ISBN 0-471-33244-5.

*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.

*Infosense: Turning Data and Information into Knowledge*, by Keith Devlin. W. H. Freeman, June 1999. ISBN 0-716-73484-2.

*The Invention of Infinity: Mathematics and Art in the Renaissance*, by J. V. Field. Oxford University Press, May 1997. ISBN 0-198-52394-7. (Reviewed January 2000.)

*Jacques Hadamard, A Universal Mathematician*, by Vladimir Maz'ya and Tatyana Shaposhnikova. AMS/London Mathematical Society, January 1998. ISBN 0-821-80841-9.

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

*John von Neumann: The Scientific Genius Who Pioneered the Modern Computer, Game Theory, Nuclear Deterrence, and Much More*, by Norman Macrae. AMS, October 1999. ISBN 0-821-82064-8.

*The Kingdom of Infinite Number: A Field Guide*, by Bryan Bunch. W. H. Freeman, January 2000. ISBN 0-716-73388-9.

*The Mathemagician and the Pied Puzzler: A Collection in Tribute to Martin Gardner*, edited by Elwyn Berlekamp and Tom Rodgers. A K Peters, March 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, March 1999. ISBN 0-471-23847-3. (Reviewed February 2000.)

*Mathematical Sorcery: Revealing the Secrets of Numbers*, by Calvin C. Clawson. Plenum Press, May 1999. ISBN 0-306-46003-3.

*Mathematics and Mathematicians: Mathematics in Sweden before 1950*, by Lars Gårding. AMS/London Mathematical Society, 1998. ISBN 0-821-80612-2.

*The Moment of Proof: Mathematical Epiphanies*, by Donald C. Benson. Oxford University Press, March 1999. ISBN 0-195-11721-2.

*Mystic, Geometer, and Intuitionist: The Life of L. E. J. Brouwer*, by Dirk Van Dalen. Oxford University Press, April 1999. ISBN 0-198-50297-4.

*The Nature of Mathematical Modeling*, by Neil Gershenfeld. Cambridge University Press, February 1999. ISBN 0-521-57095-6.

*New Directions in the Philosophy of Mathematics: An Anthology*, Thomas Tymoczko, Editor. Princeton University Press, revised edition, January 1998. ISBN 0-691-03498-2.

*Noeuds: Genèse d'une théorie mathématique (Knots: Genesis of a Mathematical Theory)*, by Alexei Sossinsky

(in French). Seuil, 1999. ISBN 2-020-32089-4.

*The Nothing That Is: A Natural History of Zero*, by Robert Kaplan. Oxford University Press, October 1999. ISBN 0-195-12842-7.

*Number: From Ahmes to Cantor*, by Midhat Gazalé. Princeton University Press, March 2000. ISBN 0-691-00515-X.

*The Number Devil*, by Hans Magnus Enzensberger. Metropolitan Books, October 1998. ISBN 0-805-05770-6. (Reviewed January 2000.)

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

*Philosophy of Mathematics: An Introduction to a World of Proofs and Pictures*, by James Robert Brown. Routledge, August 1999. ISBN 0-415-12274-0.

*Pioneers of Representation Theory: Frobenius, Burnside, Schur, and Brauer*, by Charles W. Curtis. AMS/London Mathematical Society, October 1999. ISBN 0-821-89002-6.

*Proofs and Contradictions: The Story of the Alternating Sign Matrix Conjecture*, by David M. Bressoud. MAA Spectrum Series, published jointly with Cambridge University Press, August 1999. ISBN 0-521-66646-5.

*Shadows of the Circle: Conic Sections, Optimal Figures and Non-Euclidean Geometry*, by Vagn Lundsgaard Hansen. World Scientific Publishing Company, November 1998. ISBN 9-810-23418-X.

*Slicing Pizzas, Racing Turtles, and Further Adventures in Applied Mathematics*, by Robert B. Banks. Princeton University Press, September 1999. ISBN 0-691-05947-0.

*Small Worlds: The Dynamics of Networks Between Order and Randomness*, by Duncan J. Watts. Princeton University Press, November 1999. ISBN 0-691-00541-9.

*Squaring the Circle: The War between Hobbes and Wallis*, by Douglas M. Jesseph. University of Chicago Press, December 1999. ISBN 0-226-39899-4 (cloth) 0-226-39900-1 (paper).

*Statistics on the Table: The History of Statistical Concepts and Methods*, by Stephen M. Stigler. Harvard University Press, November 1999. ISBN 0-674-83601-4.

*Stephen Smale: The Mathematician Who Broke the Dimension Barrier*, by Steve Batterson. AMS, February 2000. ISBN 0-821-82045-1.

*Turing and the Computer (The Big Idea)*, by Paul Strathern. Anchor Books, April 1999. ISBN 0-385-49243-X.

*\*Uncle Petros and Goldbach's Conjecture* by Apolstolos Doxiadis. Bloomsbury USA, February 2000. ISBN 1-582-34067-6.

*The Universal History of Numbers: From Prehistory to the Invention of the Computer*, by Georges Ifrah (translated by David Bellos, Sophie Wood, and Ian Monk). John Wiley & Sons, December 1999. ISBN 0-471-37568-3.

*What Are the Odds?: Chance in Everyday Life*, by Michael Orkin. W. H. Freeman, December 1999. ISBN 0-716-73560-1.

*What Counts: How Every Brain is Hardwired for Math*, by Brian Butterworth. Free Press, August 1999. ISBN 0-684-85417-1.

*What Is Random?: Discovering Chance and Order in Mathematics and the World*, by Edward J. Beltrami. Springer-Verlag, August 1999. ISBN 0-387-98737-1.

*What's Happening in the Mathematical Sciences, 1998-1999*, by Barry Cipra. AMS, December 1998. ISBN 0-821-80766-8.

*Why Do Buses Come In Threes?*, by Rob Eastaway and Jeremy Wyndham. John Wiley & Sons, May 1999. ISBN 0-471-34756-6.

*\*The Wild Numbers*, by Philibert Schogt. Four Walls Eight Windows, April 2000. ISBN 1-568-68166-1.

*\*Zero: The Biography of a Dangerous Idea*, by Charles Seife. Viking Press, February 2000. ISBN 0-670-88457-X.

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*\*Added to the "Book List" since the List's last appearance.*