
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, 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 in the case of the editor and 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

August 28, 2000: Applications for NRC travel/host grants for research. See <http://www.nationalacademies.org/oia/>, or telephone: 202-334-

2644, fax: 202-334-2614, or e-mail: oceen@nas.edu.

September 1, 2000: Applications for the AWM 2001 Workshop for Women Graduate Students and Postdocs. 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. The AWM Web site is at <http://www.awm-math.org/>.

September 15, 2000: Nominations for Sloan Research Fellowships. Contact Sloan Research Fellowships, Alfred P. Sloan Foundation, 630 Fifth Avenue, Suite 2550, New York, New

York 10111, or see: <http://www.sloan.org/>.

October 1, 2000: Nominations for the AWM Louise Hay Award and Alice T. Schafer Prize. Contact 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, 2000: Applications for NSF/AWM Travel Grants for Women for 2000. See "Mathematics Opportunities" in this issue or <http://www.awm-math.org/travelgrants.html>; telephone: 301-405-7892; e-mail: 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 1999 and 2000 (Council, Executive Committee, Publications Committees, Board of Trustees)—May 2000, p. 591

AMS Officers and Committee Members—November 1999, p. 1271

AMS Bylaws—November 1999, p. 1252

Conference Board of the Mathematical Sciences—September 2000, p. 913

Information for Notices Authors—June/July 2000, p. 686

Mathematics Research Institutes Contact Information—August 2000, p. 786

National Science Board—January 2000, p. 71

New Journals for 1999—June/July 2000, p. 688

NRC Board on Mathematical Sciences and Staff—April 2000, p. 494

NRC Mathematical Sciences Education Board and Staff—April 2000, p. 494

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

Program Officers for Federal Funding Agencies (DoD, DoE, NSF)—October 1999, p. 1075; November 1999, p. 1247

October 15, 2000: Proposals for NSA grant and sabbatical programs. See "Mathematics Opportunities" in this issue.

October 16, 2000: Applications for NSF Mathematical Sciences Postdoctoral Research Fellowships. See <http://www.fastlane.nsf.gov/>, or telephone: 703-306-1870, or e-mail: msprf@nsf.gov.

November 1, 2000: Applications for Fulbright Scholar Program international education and academic administrator seminars. Contact the Council for International Exchange of Scholars (CIES), 3007 Tilden Street, NW, Suite 5L, Washington, DC 20008-3009; telephone: 202-686-7877; World Wide Web: <http://www.iie.org/cies/compo.htm>.

November 7, 2000: NSF Graduate Research Fellowships. See <http://www.orau.org/nsf/nsffel.htm> or contact: NSF Graduate Research Fellowship Program, Oak Ridge Associated Universities, P. O. Box 3010, Oak Ridge, TN 37831-3010; telephone: 865-241-4300; fax: 865-241-4513; e-mail: nsfgrfp@orau.gov.

January 8, 2001: Applications for NRC travel/host grants. See <http://www.nationalacademies.org/oia/>, or telephone: 202-334-2644, fax: 202-334-2614, or e-mail: occe@nas.edu.

January 16, 2001: Proposals for NSF institute competition. See <http://www.nsf.gov/cgi-bin/getpub?nsf0086/>, or contact Division of Mathematical Sciences, Room 1025, National Science Foundation, 4201 Wilson Boulevard, Arlington, VA 22230; telephone: 703-306-1870.

January 26, 2001: Full proposals for NSF IGERT program. See <http://www.nsf.gov/cgi-bin/getpub?nsf0078/>.

February 1, 2001: Applications for NSF/AWM Mentoring Travel Grants Women for 2001. See "Mathematics Opportunities" in this issue or <http://www.awm-math.org/travelgrants.html>; telephone: 301-405-7892; e-mail: awm@math.umd.edu.

February 1, May 1, October 1, 2001: Applications for NSF/AWM Travel Grants Women for 2001. See "Mathematics Opportunities" in this issue or <http://www.awm-math.org/travelgrants.html>; telephone:

301-405-7892; e-mail: awm@math.umd.edu.

October 1, 2001: Nominations for the Emanuel and Carol Parzen Prize. Submit nominations to J. H. Matis, Department of Statistics, Texas A&M University, College Station, TX 77873-3143.

Conference Board of the Mathematical Sciences

1529 Eighteenth Street, NW
Washington, DC 20036
Telephone: 202-293-1170
<http://www.maa.org/cbms/>

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Administrative Assistant

CBMS Member Societies

American Mathematical Association
of Two-Year Colleges
American Mathematical Society
American Statistical Association
Association for Symbolic Logic
Association for Women in
Mathematics
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America
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Mathematicians
National Council of Supervisors of
Mathematics
National Council of Teachers of
Mathematics
Society for Industrial and Applied
Mathematics
Society of Actuaries

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. Gen-

erally 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 Advent of the Algorithm: The Idea That Rules the World, by David Berlinski. Harcourt, March 2000. ISBN 0-151-00338-6.

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

The Bride of Science, by Benjamin Woolley. MacMillan, August 1999. ISBN 0-333-72436-4.

Chance Rules: An Informal Guide to Probability, Risk, and Statistics, by Brian S. Everitt. Springer, August 1999. ISBN 0-387-98768-1.

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).

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, June 1999. ISBN 0-387-98423-2.

Excursions into Mathematics: Millennium Edition, by Anatole Beck, Michael N. Cleicher, and Donald W. Crowe. A K Peters, 2000. ISBN 1-56881-115-2.

* *The Fermat Diary*, by C. J. Mozzochi. AMS, 2000. ISBN 0-8218-2670-0.

Fermat's Last Theorem for Amateurs, by Paulo Ribenboim. Springer,

February 1999. ISBN 0-387-98508-5. (Reviewed April 2000.)

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 May 2000.)

The Game's Afoot! Game Theory in Myth and Paradox, by Alexander Mehlmann. AMS, 2000. ISBN 0-8218-2121-0.

A History of Algorithms: From the Pebble to the Microchip, edited by Jean-Luc Chabert. Springer, September 1999. ISBN 3-540-63369-3.

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. (Reviewed August 2000.)

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

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 0-8218-2064-8.

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

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 0-8218-0612-2.

Mathematics Success and Failure among African American Youth: The Roles of Sociohistorical Context, Community Forces, School Influence, and Individual Agency, by Danny B. Martin. Lawrence Erlbaum Associates, December 1999. ISBN 0-805-83042-1.

* *Mathematics Unlimited: 2001 and Beyond*, Björn Engquist and Wilfried Schmid, editors. Springer, September 2000. ISBN 3-540-66913-2.

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

Noeuds: Genèse d'une théorie mathématique (Knots: Genesis of a Mathematical Theory), by Alexei Sossinsky (in French). Seuil, 1999. ISBN 2-020-32089-4. (Reviewed June/July 2000.)

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.

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 0-8218-9002-6.

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.

Riemann, Topology, and Physics, by Michael Monastyrsky. Translated by Roger Cooke, James King, and Victoria King. Birkhäuser, second edition, May 1999. ISBN 3-7643-3789-3.

Shadows of the Circle: Conic Sections, Optimal Figures and Non-Euclidean Geometry, by Vagn Lunds-gaard 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. (Reviewed in this issue.)

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

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.

The Unknowable, by Gregory Chaitin. Springer, August 1999. ISBN 9-814-02172-5.

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, August 1999. ISBN 0-387-98737-1.

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.

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