

# 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, communications, opinion pieces, and book reviews. 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.ou.edu](mailto:notices@math.ou.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 405-325-7484 for the editor and 401-331-3842 for the managing editor. Postal addresses may be found in the masthead.

## Upcoming Deadlines

**April 7, 2006:** Proposals for 2007 NSF-CBMS Regional Conferences.

See the CBMS website, [http://www.cbmsweb.org/NSF/2007\\_call.htm](http://www.cbmsweb.org/NSF/2007_call.htm), or contact: Conference Board of the Mathematical Sciences, 1529 Eighteenth Street, NW, Washington, DC 20036; telephone: 202-293-1170; fax: 202-293-3412; email: [tkolbe@maa.org](mailto:tkolbe@maa.org) or [rosier@georgetown.edu](mailto:rosier@georgetown.edu).

**April 20, 2006:** Proposals for NSF Program in Mathematical, Social, and Behavioral Sciences. See [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf06531&org=NSF](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf06531&org=NSF).

**May 1, 2006:** Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html>; telephone 703-934-0163; email: [awm@math.umd.edu](mailto:awm@math.umd.edu); or contact Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

**May 31, 2006:** Registration for the Thirteenth International Mathematics Competition for University Students (IMC). See the website <http://www.imc-math.org> or contact John E. Jayne, Department of Mathematics,

## Where to Find It

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

**AMS Bylaws**—November 2005, p. 1239

**AMS Email Addresses**—February 2006, p. 251

**AMS Ethical Guidelines**—June/July 2004, p. 675

**AMS Officers 2005 and 2006 (Council, Executive Committee, Publications Committees, Board of Trustees)**—May 2005, p. 604

**AMS Officers and Committee Members**—October 2005, p. 1073

**Conference Board of the Mathematical Sciences**—September 2005, p. 892

**Information for Notices Authors**—June/July 2005, p. 660

**Mathematics Research Institutes Contact Information**—August 2005, p. 770

**National Science Board**—January 2006, p. 62

**New Journals for 2004**—June/July 2005, p. 662

**NRC Board on Mathematical Sciences and Their Applications**—March 2006, p. 369

**NRC Mathematical Sciences Education Board**—April 2006, p. 488

**NSF Mathematical and Physical Sciences Advisory Committee**—February 2006, p. 255

**Program Officers for Federal Funding Agencies**—October 2005, p. 1069 (DoD, DoE); November 2005, p. 1223 (NSF)

**Stipends for Study and Travel**—September 2005, p. 900

University College London, Gower Street, London WC1E 6BT, United Kingdom; telephone +44-20-7679 7322; fax +44-20-7419 2812; email: j.jayne@imc-math.org.

**June 1, 2006:** Applications for fall program of the Christine Mirzayan Science and Technology Policy Graduate Fellowship Program of the National Academies. See the website <http://www7.nationalacademies.org/policyfellows>, or contact The National Academies Christine Mirzayan Science and Technology Policy Graduate Fellowship Program, 500 5th Street, NW, Room 508, Washington, DC 20001; telephone: 202-334-2455; fax: 202-334-1667.

**June 6, 2006:** Proposals for NSF Enhancing the Mathematical Sciences Workforce in the Twenty-First Century. See "Mathematics Opportunities" in this issue.

**June 22, 2006:** Full proposals for NSF Program in Informal Science Education. See [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf06520](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf06520).

**July 31, 2006:** Nominations for the ICTP/IMU Ramanujan Prize. See "Mathematics Opportunities" in this issue.

**October 1, 2006:** Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html>; telephone 703-934-0163; email: [awm@math.umd.edu](mailto:awm@math.umd.edu); or contact Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

## Book List

*The Book List highlights books that have mathematical themes and are aimed at a broad audience potentially including mathematicians, students, and 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 [notices-booklist@ams.org](mailto:notices-booklist@ams.org).*

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

*A<sup>3</sup> & His Algebra: How a Boy from Chicago's West Side Became a Force in American Mathematics*, by Nancy E. Albert. iUniverse, Inc., January 2005. ISBN 0-595-32817-2. (Reviewed December 2005.)

*Beyond Coincidence: Amazing Stories of Coincidence and the Mystery and Mathematics behind Them*, by Martin Plimmer and Brian King. Thomas Dunne Books, December 2005. ISBN 0-312-34036-2.

*The Book of Presidents*, by Susan Oakes, Alan Pears, and Adrian Rice. London Mathematical Society, 2005. ISBN 0-950-27341-4.

*A Brief History of Infinity*, by Paolo Zellini. Penguin Books (paperback), March 2005. ISBN 0-141-00762-1.

*The Calculus Gallery: Masterpieces from Newton to Lebesgue*, by William Dunham. Princeton University Press, December 2004. ISBN 0-691-09565-5.

*Chance: A Guide to Gambling, Love, the Stock Market and Just About Everything Else*, by Amir D. Aczel. Thunder's Mouth Press, October 2004. ISBN 1-56858-316-8. (Reviewed August 2005.)

*Change Is Possible: Stories of Women and Minorities in Mathematics*, by Patricia Clark Kenschaft. AMS, September 2005. ISBN 0-8218-3748-6.

*Coincidences, Chaos, and All That Math Jazz: Making Light of Weighty Ideas*, by Edward B. Burger and Michael Starbird. W. W. Norton, August 2005. ISBN 0-393-05945-6.

*The Colours of Infinity: The Beauty and Power of Fractals*, by Michael Barnsley, Nigel Lesmoir-Gordon, Benoît B. Mandelbrot, Ian Stewart, Gary Flake, Robert Prechter, and Arthur C. Clarke. Clear Press, March 2004. ISBN 1-904-55505-5.

*Complexities: Women in Mathematics*, edited by Bettie Anne Case and Anne M. Leggett. Princeton University Press, January 2005. ISBN 0-691-11462-5.

*Converging Realities: Toward a Common Philosophy of Physics and Mathematics*, by Roland Omnès.

Princeton University Press, November 2004. ISBN 0-691-11530-3.

\* *The Coxeter Legacy: Reflections and Projections*, edited by Chandler Davis and Erich W. Ellers. AMS, March 2006. ISBN 0-8218-3722-2.

*The Curious Incident of the Dog in the Night-time*, by Mark Haddon. Vintage, May 2004. ISBN 1-400-03271-7. (Reviewed March 2006.)

*Dark Hero of the Information Age: In Search of Norbert Wiener*, by Flo Conway and Jim Siegelman. Basic Books, December 2004. ISBN 0-738-20368-8. (Reviewed in this issue.)

*Decoding the Universe: How the New Science of Information Is Explaining Everything in the Cosmos, from Our Brains to Black Holes*, by Charles Seife. Viking Adult, February 2006. ISBN 0-670-03441-X.

*Divine Proportions: Rational Trigonometry to Universal Geometry*, by N. J. Wildberger. Wild Egg Books, September 2005. ISBN 0-9757492-0-X.

*The Equation That Couldn't Be Solved (How Mathematical Genius Discovered the Language of Symmetry)*, by Mario Livio. Simon and Schuster, September 2005. ISBN 0-743-25820-7.

*M. C. Escher's Legacy: A Centennial Celebration*, edited by Doris Schattschneider and Michele Emmer. Springer, September 2005 (paperback edition). ISBN 3-540-20100-9.

\* *Euler through Time: A New Look at Old Themes*, by V. S. Varadarajan. AMS, June 2006. ISBN 0-8218-3722-2.

*Experimentation in Mathematics: Computational Paths to Discovery*, by Jonathan Borwein, David Bailey, and Roland Girgensohn. A K Peters, March 2004. ISBN 1-56881-136-5. (Reviewed September 2005.)

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

*The Fermat Proof*, by C. J. Mozzochi. Trafford Publishing, Inc., February 2004. ISBN 1-412-02203-7.

*Geometry and Meaning*, by Dominic Widdows. Center for the Study of Language and Information, November 2004. ISBN 1-575-86448-7.

*God Created the Integers*, by Stephen Hawking. Running Press, October 2005. ISBN 0-762-41922-9.

*Gödel's Theorem: An Incomplete Guide to Its Use and Abuse*, by Torkel

Franzen. A K Peters, May 2005. ISBN 1-56881-238-8.

*Graphic Discovery: A Trout in the Milk and Other Visual Adventures*, by Howard Wainer. Princeton University Press, October 2004. ISBN 0-691-10301-1.

*Hiding in the Mirror: The Mysterious Allure of Extra Dimensions, from Plato to String Theory and Beyond*, by Lawrence M. Krauss. Viking Adult, October 2005. ISBN 0-670-03395-2.

*Incompleteness: The Proof and Paradox of Kurt Gödel*, by Rebecca Goldstein. W. W. Norton & Company, February 2005. ISBN 0-393-05169-2. (Reviewed April 2006.)

\* *Infinite Ascent: A Short History of Mathematics*, by David Berlinski. Modern Library, September 2005. ISBN 0-679-64234-X.

*The Infinite Book: A Short Guide to the Boundless, Timeless and Endless*, by John D. Barrow. Pantheon, August 2005. ISBN 0-375-42227-7.

*Introducing Game Theory and Its Applications*, by Elliott Mendelson. CRC Press, July 2004. ISBN 1-584-88300-6.

*János Bolyai, Euclid, and the Nature of Space*, by Jeremy J. Gray. MIT Press, May 2003. ISBN 0-262-57174-9. (Reviewed October 2005.)

*John Pell (1611-1685) and His Correspondence with Sir Charles Cavendish: The Mental World of an Early Modern Mathematician*, by Noel Malcolm and Jacqueline Stedall. Oxford University Press, second edition, January 2005. ISBN 0-198-56484-8.

*The Knot Book: An Elementary Introduction to the Mathematical Theory of Knots*, Colin C. Adams. AMS, September 2004. ISBN 0-8218-3678-1. (Reviewed September 2005.)

*Knots and Links*, by Peter R. Cromwell. Cambridge University Press, October 2004. ISBN 0-521-83947-5.

*Luck, Logic, and White Lies: The Mathematics of Games*, by Jörg Bewersdorff. Translated by David Kramer. A K Peters, November 2004. ISBN 1-56881-210-8.

*Saunders Mac Lane: A Mathematical Autobiography*, by Saunders Mac Lane. A K Peters, May 2005. ISBN 1-56881-150-0. (Reviewed December 2005.)

*The Man Who Knew Too Much: Alan Turing and the Invention of the Computer*, by David Leavitt. Great Discoveries series, W. W. Norton, December 2005. ISBN 0-393-05236-2.

*The Math Instinct: Why You're a Mathematical Genius (Along with Lobsters, Birds, Cats, and Dogs)*, by Keith Devlin. Thunder's Mouth Press, March 2005. ISBN 1-56025-672-9.

*Mathematical Adventures for Students and Amateurs*, David F. Hayes and Tatiana Shubin, editors. Mathematical Association of America, 2004. ISBN 0-88385-548-8.

*Mathematical Illustrations: A Manual of Geometry and PostScript*, by Bill Casselman. Cambridge University Press, December 2004. ISBN 0-521-54788-1.

*Mathematical Musings: A Collection of Quotes*, edited by Dan Sonnenschein. Clarium Press, November 2005. ISBN 0-9697688-8-5.

*Mathematics by Experiment: Plausible Reasoning in the 21st Century*, by Jonathan Borwein and David Bailey. A K Peters, December 2003. ISBN 1-56881-211-6. (Reviewed September 2005.)

*Mathematics in Nature: Modeling Patterns in the Natural World*, by John A. Adam. Princeton University Press, November 2003. ISBN 0-691-11429-3. (Reviewed June/July 2005.)

*MetaMath! The Quest for Omega*, by Gregory Chaitin. Pantheon, October 2005. ISBN 0-375-42313-3.

*R. L. Moore: Mathematician and Teacher*, by John Parker. Mathematical Association of America, 2004. ISBN 0-88385-550-X.

*More Mathematical Astronomy Morsels*, by Jean Meeus. Willmann-Bell, 2002. ISBN 0-943396-743.

*Musings of the Masters: An Anthology of Miscellaneous Reflections*, edited by Raymond G. Ayoub. Mathematical Association of America, June 2004. ISBN 0-88385-549-6.

*New Mexico Mathematics Contest Problem Book*, by Liong-shin Hahn. University of New Mexico Press, November 2005. ISBN 0-8263-3534-9.

*The Newtonian Moment: Isaac Newton and the Making of Modern Culture*, by Mordechai Feingold. New York Library and Oxford University Press, December 2004. ISBN 0-195-17735-5.

*Numbers, the Language of Science*, by Tobias Dantzig. Pi Press, fifth edition, March 2005. ISBN 0-131-85627-8.

*The Oxford Murders*, by Guillermo Martínez. Abacus, January 2005. ISBN 0-349-11721-7. (Reviewed November 2005.)

*The Pea and the Sun: A Mathematical Paradox*, by Leonard M. Wapner. A K Peters, April 2005. ISBN 1-56881-213-2.

*Piero della Francesca: A Mathematician's Art*, by J. V. Field. Yale University Press, August 2005. ISBN 0-300-10342-5.

*PopCo*, by Scarlett Thomas. Harvest Books, October 2005. ISBN 0-156-03137-X. (Reviewed February 2006.)

*Probability Theory: The Logic of Science*, by E. T. Jaynes. Edited by G. Larry Bretthorst. Cambridge University Press, April 2003. ISBN 0-521-59271-2. (Reviewed January 2006.)

*Reality Conditions: Short Mathematical Fiction*, by Alex Kasman. Mathematical Association of America, May 2005. ISBN 0-88385-552-6.

*Reflections: V. I. Arnold's Reminiscences*, by V. I. Arnold. Springer, April 2006. ISBN 3-540-28734-5.

*Science in the Looking Glass*, by E. Brian Davies. Oxford University Press, August 2003. ISBN 0-198-52543-5. (Reviewed December 2005.)

*Sneaking a Look at God's Cards: Unraveling the Mysteries of Quantum Mechanics*, by Giancarlo Ghirardi, translated by Gerald Malsbary. Princeton University Press, revised edition, January 2005. ISBN 0-691-12139-7.

*Spaceland*, by Rudy Rucker. Tor Books, June 2002. ISBN 0-765-30366-3. (Reviewed August 2005.)

*The Three Body Problem*, by Catherine Shaw. Allison and Busby, March 2005. ISBN 0-749-08347-6.

*A Tour through Mathematical Logic*, by Robert S. Wolf. Mathematical Association of America, January 2005. ISBN 0-88385-036-2.

*Using the Mathematics Literature*, by Kristine K. Fowler. Marcel Dekker, June 2004. ISBN 0-824-75035-7.

*The Visual Mind II*, edited by Michele Emmer. MIT Press, May 2005. ISBN 0-262-05076-5.