

# 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.wustl.edu](mailto:notices@math.wustl.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 314-935-6839 for the editor and 401-331-3842 for the managing editor. Postal addresses may be found in the masthead.

## Upcoming Deadlines

**April 30, 2011:** Nominations for AWM Gweneth Humphreys Award. See [www.awm-math.org](http://www.awm-math.org), telephone 703-934-0163, or email [awm@awm-math.org](mailto:awm@awm-math.org).

**May 1, 2011:** Applications for May review for National Academies Research Associateship Programs. See the National Academies website at [http://sites.nationalacademies.org/PGA/RAP/PGA\\_050491](http://sites.nationalacademies.org/PGA/RAP/PGA_050491) or contact Research Associateship Programs, National Research Council,

Keck 568, 500 Fifth Street, NW, Washington, DC 20001; telephone 202-334-2760; fax 202-334-2759; email [rap@nas.edu](mailto:rap@nas.edu).

**May 1, 2011:** Applications for National Academies Christine Mirzayan Graduate Fellowship Program for fall 2011. See <http://sites.nationalacademies.org/PGA/policyfellows/index.htm>.

**May 1, 2011:** Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html#standard>.

**May 15–June 15, 2011:** Submission period for DMS Workforce Program in the Mathematical Sciences. See [http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503233](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503233).

**August 1, 2011:** Applications for August review for National Academies Research Associateship Programs. See the National Academies website at [http://sites.nationalacademies.org/PGA/RAP/PGA\\_050491](http://sites.nationalacademies.org/PGA/RAP/PGA_050491) or contact Research

Associateship Programs, National Research Council, Keck 568, 500 Fifth Street, NW, Washington, DC 20001; telephone 202-334-2760; fax 202-334-2759; email [rap@nas.edu](mailto:rap@nas.edu).

**October 1, 2011:** Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html#standard>.

**October 1, 2011:** Nominations for the 2012 Emanuel and Carol Parzen Prize. Contact Thomas Wehrly, Department of Statistics, 3143 TAMU, Texas A&M University, College Station, Texas 77843-3143.

**October 19, 2011:** Proposals for NSF Postdoctoral Research Fellowships. See "Mathematics Opportunities" in this issue.

**November 1, 2011:** Applications for November review for National Academies Research Associateship Programs. See the National Academies website at [http://sites.nationalacademies.org/PGA/RAP/PGA\\_050491](http://sites.nationalacademies.org/PGA/RAP/PGA_050491) or contact Research

## Where to Find It

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

**AMS Bylaws**—November 2009, p. 1320

**AMS Email Addresses**—February 2011, p. 326

**AMS Ethical Guidelines**—June/July 2006, p. 701

**AMS Officers 2010 and 2011 Updates**—May 2011, p. 735

**AMS Officers and Committee Members**—October 2010, p. 1152

**Conference Board of the Mathematical Sciences**—September 2010, p. 1009

**IMU Executive Committee**—December 2010, page 1488

**Information for Notices Authors**—June/July 2010, p. 768

**Mathematics Research Institutes Contact Information**—August 2010, p. 894

**National Science Board**—January 2011, p. 77

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**NRC Board on Mathematical Sciences and Their Applications**—March 2011, p. 482

**NRC Mathematical Sciences Education Board**—April 2011, p. 619

**NSF Mathematical and Physical Sciences Advisory Committee**—February 2011, p. 329

**Program Officers for Federal Funding Agencies**—October 2010, p. 1148 (DoD, DoE); December 2010, page 1488 (NSF Mathematics Education)

**Program Officers for NSF Division of Mathematical Sciences**—November 2010, p. 1328

Associateship Programs, National Research Council, Keck 568, 500 Fifth Street, NW, Washington, DC 20001; telephone 202-334-2760; fax 202-334-2759; email rap@nas.edu.

**December 21, 2011:** Nominations for the Schauder Medal. Contact Lech Gorniewicz, manager of Schauder Center, tmna@mat.uni.torun.pl.

## 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.*

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

*Apocalypse When?: Calculating How Long the Human Race Will Survive*, by Willard Wells. Springer Praxis, June 2009. ISBN-13: 978-03870-983-64.

\**At Home with Andre and Simone Weil*, by Sylvie Weil. (Translation of *Chez les Weils*, translated by Benjamin Ivry.) Northwestern University Press, October 2010. ISBN 978-08101-270-43. (Reviewed in this issue.)

*The Best Writing on Mathematics: 2010*, edited by Mircea Pitici. Princeton University Press, December 2010. ISBN-13: 978-06911-484-10.

*The Black Swan: The Impact of the Highly Improbable*, by Nassim Nicholas Taleb. Random House Trade Paperbacks, second edition, May 2010. ISBN-13: 978-08129-738-15. (First edition reviewed March 2011.)

*Bright Boys: The Making of Information Technology*, by Tom Green. A K Peters, April 2010. ISBN-13: 978-1-56881-476-6.

\**The Calculus Diaries: How Math Can Help You Lose Weight, Win in Vegas, and Survive a Zombie Apocalypse*, by Jennifer Ouellette.

Penguin, reprint edition, August 2010. ISBN 978-01431-173-77.

*The Calculus of Friendship: What a Teacher and Student Learned about Life While Corresponding about Math*, by Steven Strogatz. Princeton University Press, August 2009. ISBN-13: 978-0691-13493-2. (Reviewed June/July 2010.)

*The Calculus of Selfishness*, by Karl Sigmund. Princeton University Press, January 2010. ISBN-13: 978-06911-427-53.

*The Clockwork Universe: Isaac Newton, the Royal Society, and the Birth of the Modern World*, by Edward Dolnick. Harper, February 2011. ISBN-13: 978-00617-195-16. (Reviewed April 2011.)

*Complexity: A Guided Tour*, by Melanie Mitchell. Oxford University Press, April 2009. ISBN-13: 978-01951-244-15. (Reviewed April 2011.)

*The Cult of Statistical Significance: How the Standard Error Costs Us Jobs, Justice, and Lives*, by Stephen T. Ziliak and Deirdre N. McCloskey, University of Michigan Press, February 2008. ISBN-13: 978-04720-500-79. (Reviewed October 2010.)

*Duel at Dawn: Heroes, Martyrs, and the Rise of Modern Mathematics*, by Amir Alexander. Harvard University Press, April 2010. ISBN-13: 978-06740-466-10. (Reviewed November 2010.)

*Euler's Gem: The Polyhedron Formula and the Birth of Topology*, by David S. Richeson. Princeton University Press, September 2008. ISBN-13: 978-06911-267-77. (Reviewed December 2010.)

*The Grand Design*, by Stephen Hawking and Leonard Mlodinow. Bantam, September 2010. ISBN-13: 978-05538-053-76.

*Here's Looking at Euclid: A Surprising Excursion through the Astonishing World of Math*, by Alex Bellos. Free Press, June 2010. ISBN-13: 978-14165-882-52.

*Hidden Harmonies (The Lives and Times of the Pythagorean Theorem)*, by Robert and Ellen Kaplan. Bloomsbury Press, January 2011. ISBN-13: 978-15969-152-20.

\**Hot X: Algebra Exposed*, by Danica McKellar. Hudson Street Press, August 2010. ISBN 978-15946-307-05.

*How to Read Historical Mathematics*, by Benjamin Wardhaugh. Princeton University Press, March 2010. ISBN-13: 978-06911-401-48.

*Isaac Newton on Mathematical Certainty and Method*, by Niccolò Guicciardini. MIT Press, October 2009. ISBN-13: 978-02620-131-78.

\**Le Operazioni del Calcolo Logico*, by Ernst Schröder. Original German version of *Operationskreis des Logikkalkuls* and Italian translation with commentary and annotations by Davide Bondoni. LED Online, 2010. ISBN 978-88-7916-474-0.

*Logicomix: An Epic Search for Truth*, by Apostolos Doxiadis and Christos Papadimitriou. Bloomsbury USA, September 2009. ISBN-13: 978-15969-145-20. (Reviewed December 2010.)

*Loving + Hating Mathematics: Challenging the Myths of Mathematical Life*, by Reuben Hersh and Vera John-Steiner. Princeton University Press, January 2011. ISBN-13: 978-06911-424-70.

*The Math Book: From Pythagoras to the 57th Dimension, 250 Milestones in the History of Mathematics*, by Clifford A. Pickover. Sterling, September 2009. ISBN-13: 978-14027-579-69.

*A Mathematician's Lament: How School Cheats Us Out of Our Most Fascinating and Imaginative Art Form*, by Paul Lockhart. Bellevue Literary Press, April 2009. ISBN-13: 978-1-934137-17-8.

*Mathematicians: An Outer View of the Inner World*, by Mariana Cook. Princeton University Press, June 2009. ISBN-13: 978-06911-3951-7. (Reviewed August 2010.)

*Mathematicians Fleeing from Nazi Germany: Individual Fates and Global Impact*, by Reinhard Siegmund-Schultze. Princeton University Press, July 2009. ISBN-13: 978-06911-4041-4. (Reviewed November 2010.)

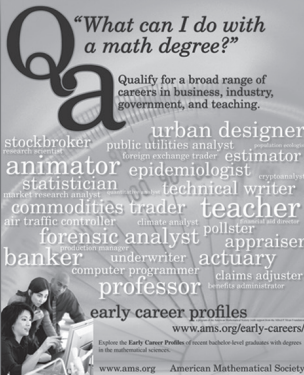
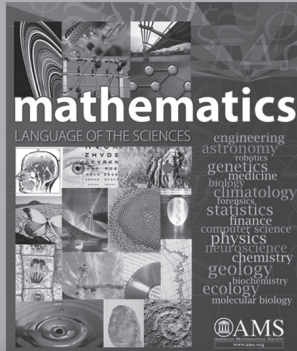
*A Motif of Mathematics: History and Application of the Mediant and the Farey Sequence*, by Scott B. Guthery. Docent Press, September 2010. ISBN-13: 978-4538-105-76.

*Mrs. Perkins's Electric Quilt: And Other Intriguing Stories of Mathematical Physics*, Paul J. Nahin, Princeton University Press, August 2009. ISBN-13: 978-06911-354-03.

*Naming Infinity: A True Story of Religious Mysticism and Mathematical Creativity*, by Loren Graham and Jean-Michel Kantor. Belknap Press of Harvard University Press, March 2009. ISBN-13: 978-06740-329-34.

*Nonsense on Stilts: How to Tell Science from Bunk*, by Massimo Pigliucci. University of Chicago Press, May





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## Reference and Book List

2010. ISBN-13: 978-02266-678-67. (Reviewed April 2011.)

*\*Number Freak: From 1 to 200—The Hidden Language of Numbers Revealed*, by Derrick Niederman. Perigee Trade, August 2009. ISBN-10: 03995-345-98.

*\*Numbers: A Very Short Introduction*, by Peter M. Higgins. Oxford University Press, February 2011. ISBN 978-0-19-958405-5.

*Numbers Rule: The Vexing Mathematics of Democracy, from Plato to the Present*, by George G. Szpiro. Princeton University Press, April 2010. ISBN-13: 978-06911-399-44. (Reviewed January 2011.)

*The Numerati*, by Stephen Baker. Houghton Mifflin, August 2008. ISBN-13: 978-06187-846-08. (Reviewed October 2009.)

*Our Days Are Numbered: How Mathematics Orders Our Lives*, by Jason Brown. Emblem Editions, April 2010. ISBN-13: 978-07710-169-74.

*Perfect Rigor: A Genius and the Mathematical Breakthrough of the Century*, by Masha Gessen. Houghton Mifflin Harcourt, November 2009. ISBN-13: 978-01510-140-64. (Reviewed January 2011.)

*Pioneering Women in American Mathematics: The Pre-1940 Ph.D.'s*, by Judy Green and Jeanne LaDuke. AMS, December 2008. ISBN-13: 978-08218-4376-5.

*Plato's Ghost: The Modernist Transformation of Mathematics*, by Jeremy Gray. Princeton University Press, September 2008. ISBN-13: 978-06911-361-03. (Reviewed February 2010.)

*Probabilities: The Little Numbers That Rule Our Lives*, by Peter Olofsson. Wiley, March 2010. ISBN-13: 978-04706-244-56.

*Problem-Solving and Selected Topics in Number Theory in the Spirit of the Mathematical Olympiads*, by Michael Th. Rassias. Springer, 2011. ISBN-13: 978-1-4419-0494-2.

*\*Proofiness: The Dark Arts of Mathematical Deception*, by Charles Seife. Viking, September 2010. ISBN 978-06700-221-68.

*Proofs from THE BOOK*, by Martin Aigner and Günter Ziegler. Expanded fourth edition, Springer, October 2009. ISBN-13: 978-3-642-00855-9.

*\*The Quants: How a New Breed of Math Whizzes Conquered Wall Street and Nearly Destroyed It*, by Scott Patterson. Crown Business, January

2011. ISBN 978-03074-533-89. (Reviewed in this issue.)

*Recountings: Conversations with MIT Mathematicians*, edited by Joel Segel. A K Peters, January 2009. ISBN-13: 978-15688-144-90.

*Roger Boscovich*, by Radoslav Dimitric (Serbian). Helios Publishing Company, September 2006. ISBN-13: 978-09788-256-21.

*The Shape of Inner Space: String Theory and the Geometry of the Universe's Hidden Dimensions*, by Shing-Tung Yau (with Steve Nadis). Basic Books, September 2010. ISBN-13: 978-04650-202-32. (Reviewed February 2011.)

*The Solitude of Prime Numbers*, by Paolo Giordano. Pamela Dorman Books, March 2010. ISBN-13: 978-06700-214-82. (Reviewed September 2010.)

*Solving Mathematical Problems: A Personal Perspective*, by Terence Tao. Oxford University Press, September 2006. ISBN-13: 978-0199-20560-8. (Reviewed February 2010.)

*The Strangest Man*, by Graham Farmelo. Basic Books, August 2009. ISBN-13: 978-04650-182-77.

*Street-Fighting Mathematics: The Art of Educated Guessing and Opportunistic Problem Solving*, by Sanjoy Mahajan. MIT Press, March 2010. ISBN-13: 978-0262-51429-3.

*Survival Guide for Outsiders: How to Protect Yourself from Politicians, Experts, and Other Insiders*, by Sherman Stein. BookSurge Publishing, February 2010. ISBN-13: 978-14392-532-74.

*Symmetry: A Journey into the Patterns of Nature*, by Marcus du Sautoy. Harper, March 2008. ISBN: 978-00607-8940-4. (Reviewed February 2011.)

*Symmetry in Chaos: A Search for Pattern in Mathematics, Art, and Nature*, by Michael Field and Martin Golubitsky. Society for Industrial and Applied Mathematics, second revised edition, May 2009. ISBN-13: 978-08987-167-26.

*Teaching Statistics Using Baseball*, by James Albert. Mathematical Association of America, July 2003. ISBN-13: 978-08838-572-74. (Reviewed April 2010.)

*What's Luck Got to Do with It? The History, Mathematics and Psychology of the Gambler's Illusion*, by Joseph Mazur. Princeton University Press, July 2010. ISBN: 978-069-113890-9.