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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, 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` in the case of the editor and `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

**November 15, 2009:** Applications for National Academies Research Associateship Programs. See <http://www7.nationalacademies.org/rap/> 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`

**December 1, 2009:** Applications for AMS Centennial Fellowships. See <http://www.ams.org/employment/centflyer.html>; telephone 401-455-4105; email: `prof-serv@ams.org`; or contact the Membership and Programs Department, American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294.

**December 4, 2009:** Applications for Educational Testing Service Visit-

## Where to Find It

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**NSF Mathematical and Physical Sciences Advisory Committee**—February 2009, p. 278

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**Program Officers for NSF Division of Mathematical Sciences**—November 2009, p. 1313

ing Scholars Program. See “Mathematics Opportunities” in this issue.

**December 4, 2009:** Entries for 2009 Ferran Sunyer i Balaguer Prize. See <http://ffsb.iec.cat>.

**December 8, 2009:** Applications for East Asia and Pacific Summer Institutes (EAPSI). See <http://www.nsf.gov/pubs/2008/nsf08603/nsf08603.htm>.

**December 15, 2009:** Applications for AMS Epsilon Fund grants. See <http://www.ams.org/outreach/epsilon.html> or contact the AMS Membership and Programs Department, telephone: 800-321-4267, ext. 4170; email: [prof-serv@ams.org](mailto:prof-serv@ams.org).

**December 15, 2009:** Nominations for the International Mathematical Union (IMU) Chern Medal Award. See <http://www.mathunion.org/fileadmin/IMU/Prizes/Chern/>.

**January 10, 2010:** Applications for AAUW Educational Foundation Fellowships and Grants. See [http://www.aauw.org/fga/fellowships\\_grants/selected.cfm](http://www.aauw.org/fga/fellowships_grants/selected.cfm) or contact the AAUW Educational Foundation, Selected Professions Fellowships, Dept. 60, 301 ACT Drive, Iowa City, IA 52243-4030; telephone: 800-326-2289; email: [connect@aauw.org](mailto:connect@aauw.org).

**January 15, 2010:** Applications for AMS-AAAS Mass Media Summer Fellowships. See <http://www.aaas.org/programs/education/MassMedia/>, or contact Stacey Pasco, Manager, Mass Media Program, AAAS Mass Media Science and Engineering Fellows Program, 1200 New York Avenue, NW, Washington, DC 20005; telephone 202-326-6441; fax 202-371-9849; email: [spasco@aaas.org](mailto:spasco@aaas.org). Also see <http://www.ams.org/government/massmediaann.html> or contact the AMS Washington Office, 1527 Eighteenth Street, NW, Washington, DC 20036; telephone 202-588-1100; fax 202-588-1853; email: [amsdc@ams.org](mailto:amsdc@ams.org).

**January 15, 2010:** Applications for Jefferson Science Fellows Program. See <http://www7.nationalacademies.org/jefferson/> or email: [jsf@nas.edu](mailto:jsf@nas.edu) or telephone 202-334-2643.

**January 28, 2010:** Proposals for National Science Foundation Scientific Computing Research Environments for the Mathematical Sciences

(SCREMS). See “Mathematics Opportunities” in this issue.

**February 1, 2010:** Applications for AWM Travel Grants and Mentoring Travel Grants. See <http://www.awm-math.org/travelgrants.html>; telephone: 703-934-0163; email: [awm@awm-math.org](mailto:awm@awm-math.org); or contact Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

**February 5, 2010:** Applications for Math for America Fellowship Program. See “Mathematics Opportunities” in this issue.

**February 15, 2010:** Applications for Enhancing Diversity in Graduate Education (EDGE) Summer Program. See “Mathematics Opportunities” in this issue.

**February 15, 2010:** Applications for Institute for Pure and Applied Mathematics (IPAM) Research in Industrial Projects for Students (RIPS) undergraduate summer research program. See “Mathematics Opportunities” in this issue.

**February 15, 2010:** Applications for AMS-AAAS Congressional Fellowship. See <http://www.ams.org/government/congressfellowann.html> or contact the AMS Washington Office, telephone: 202-588-1100; email: [amsdc@ams.org](mailto:amsdc@ams.org).

**April 15, 2010:** Applications for fall 2010 semester of Math in Moscow. See <http://www.mccme.ru/mathinmoscow> or write to: Math in Moscow, P.O. Box 524, Wynnewood, PA 19096; fax: +7095-291-65-01; email: [mim@mccme.ru](mailto:mim@mccme.ru). For information on AMS scholarships see <http://www.ams.org/outreach/mimoscow.html> or write to: Math in Moscow Program, Membership and Programs Department, American Mathematical Society, 201 Charles Street, Providence RI 02904-2294; email: [student-serv@ams.org](mailto:student-serv@ams.org).

**May 1, 2010:** Applications for the fall 2010 program of the Christine Mirzayan Science and Technology Policy Graduate Fellowship program of the National Academies. See “Mathematics Opportunities” in this issue.

**May 1, 2010:** Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html>; telephone: 703-934-0163; or email: [awm@awm-math.org](mailto:awm@awm-math.org). The

postal address is: Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

**June 1, 2010:** Applications for NSF’s Enhancing the Mathematical Sciences Workforce in the Twenty-First Century (EMSW21) program. See <http://www.nsf.gov/pubs/2005/nsf05595/nsf05595.htm>.

**October 1, 2010:** Applications for AWM Travel Grants. See <http://www.awm-math.org/travelgrants.html>; telephone: 703-934-0163; email: [awm@awm-math.org](mailto:awm@awm-math.org); or contact Association for Women in Mathematics, 11240 Waples Mill Road, Suite 200, Fairfax, VA 22030.

### NSF Mathematics Education Staff

The Directorate for Education and Human Resources (EHR) of the National Science Foundation (NSF) sponsors a range of programs that support educational projects in mathematics, science, and engineering. Listed below is contact information for those EHR program officers whose fields are in the mathematical sciences or mathematics education. These individuals can provide information about the programs they oversee, as well as information about other EHR programs of interest to mathematicians. The postal address is: Directorate for Education and Human Resources, National Science Foundation, 4201 Wilson Boulevard, Arlington, VA 22230. The EHR webpage is <http://www.nsf.gov/dir/index.jsp?org=EHR>.

### Division of Research on Learning in Formal and Informal Settings

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### Office of the Director/Office of Integrative Activities

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### IMU Executive Committee

The Executive Committee of the International Mathematical Union (IMU) consists of ten voting members elected for four-year terms: the four officers (president, two vice presidents, and secretary) and six other members. The retiring president is an ex-officio member of the Executive Committee without vote for a period of four years. The current members (terms January 1, 2007, to December 31, 2010) of the IMU Executive Committee are:

*President:*  
László Lovász (Hungary)

*Secretary:*  
Martin Grötschel (Germany)

*Vice Presidents:*  
Zhi-Ming Ma (China)  
Claudio Procesi (Italy)

*Members at Large:*  
M. Salah Baouendi (USA)

Manuel de León (Spain)  
Ragni Piene (Norway)  
Cheryl E. Praeger (Australia)  
Victor A. Vassiliev (Russia)  
Marcelo Viana (Brazil)

*Ex Officio:*  
John M. Ball, Past President  
(United Kingdom)

### 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.*

*An Abundance of Katherines*, by John Green. Dutton Juvenile Books, September 2006. ISBN-13:978-0-5254-7688-7. (Reviewed October 2008.)

*The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine*, by Charles Petzold. Wiley, June 2008. ISBN-13: 978-04702-290-57.

*The Archimedes Codex: How a Medieval Prayer Book Is Revealing the True Genius of Antiquity's Greatest Scientist*, by Reviel Netz and William Noel. Da Capo Press, October 2007. ISBN 978-03068-1580-5. (Reviewed September 2008.)

*The Best of All Possible Worlds: Mathematics and Destiny*, by Ivar Ekeland. University of Chicago Press, October 2006. ISBN-13: 978-0-226-19994-8. (Reviewed March 2009.)

*The Book of Numbers: The Secret of Numbers and How They Changed the World*, by Peter J. Bentley. Firefly Books, February 2008. ISBN-13: 978-15540-736-10.

*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: 978-06911-349-32.

*The Calculus Wars: Newton, Leibniz, and the Greatest Mathematical Clash of All Time*, by Jason Socrates Bardi. Thunder's Mouth Press, April 2007. ISBN-13: 978-15602-5992-3. (Reviewed May 2009.)

*The Cat in Numberland*, by Ivar Ekeland. Cricket Books, April 2006. ISBN-13: 978-0-812-62744-2. (Reviewed January 2009.)

*Chez les Weils* (French), by Sylvie Weil. Buchet-Chastel, January 2009. ISBN-13: 978-22830-236-93.

*Crossing the Equal Sign*, by Marion D. Cohen. Plain View Press, January 2007. ISBN-13: 978-18913-866-95.

*Crocheting Adventures with Hyperbolic Planes*, by Daina Taimina. A K Peters, March 2009. ISBN-13: 978-15688-145-20.

*Decoding the Heavens: A 2,000-Year-Old Computer—and the Century-Long Search to Discover Its Secrets*, by Jo Marchant. Da Capo Press, February 2009. ISBN-13: 978-03068-174-27.

*Digital Dice*, by Paul J. Nahin. Princeton University Press, March 2008. ISBN-13: 978-06911-269-82.

*Dimensions*, by Jos Leys, Etienne Ghys, and Aurélien Alvarez. DVD, 117 minutes. Available at <http://www.dimensions-math.org>.

*The Drunkard's Walk: How Randomness Rules Our Lives*, by Leonard Mlodinow. Pantheon, May 2008. ISBN-13: 978-03754-240-45.

*Einstein's Mistakes: The Human Failings of Genius*, by Hans C. Ohanian. W. W. Norton, September 2008. ISBN-13: 978-0393062939.

*Embracing the Wide Sky: A Tour Across the Horizons of the Human Mind*, by Daniel Tammet. Free Press, January 2009. ISBN-13: 978-14165-696-95.

*Emmy Noether: The Mother of Modern Algebra*, by M. B. W. Tent. AK Peters, October 2008. ISBN-13: 978-15688-143-08. (Reviewed October 2009.)

*Ernst Zermelo: An Approach to His Life and Work*, by Heinz-Dieter Ebbinghaus. Springer, April 2007. ISBN-13 978-3-540-49551-2. (Reviewed August 2009.)

*Euler's Gem: The Polyhedron Formula and the Birth of Topology*, by David S. Richeson. Princeton University Press, September 2008. ISBN-13: 97-80691-1267-77.

*Fifty Mathematical Ideas You Really Need to Know*, by Tony Crilly. Quercus, 2007. ISBN-13: 978-18472-400-88.

*Fighting Terror Online: The Convergence of Security, Technology and the Law*, by Martin Charles Golumbic. Springer, 2008. ISBN: 978-0-387-73577-1.

*Five-Minute Mathematics*, by Ehrhard Behrends (translated by David Kramer). AMS, May 2008. ISBN-13: 978-08218-434-82.

*Gaming the Vote (Why Elections Aren't Fair and What We Can Do About It)*, by William Poundstone. Hill and Wang, February 2009. ISBN-13: 978-08090-489-22.

*GeekSpeak: How Life + Mathematics = Happiness*, by Graham Tattersall. Collins, September 2008. ISBN-13: 978-00616-292-42.

*Geometric Folding Algorithms: Linkages, Origami, Polyhedra*, by Erik D. Demaine and Joseph O'Rourke. Cambridge University Press, July 2007. ISBN-13: 978-05218-57574.

*Geometric Origami*, by Robert Geretschläger. Arbelos, October 2008. ISBN-13: 978-09555-477-13.

*The Golden Section: Nature's Greatest Secret* (Wooden Books), by Scott Olsen. Walker and Company, October 2006. ISBN-13: 978-08027-153-95.

*Group Theory in the Bedroom, and Other Mathematical Diversions*, by Brian Hayes. Hill and Wang, April 2008. ISBN-13: 978-08090-521-96. (Reviewed February 2009.)

*Hexaflexagons, Probability Paradoxes, and the Tower of Hanoi: Martin Gardner's First Book of Mathematical Puzzles and Games*, by Martin Gardner. Cambridge University Press, September 2008. ISBN-13: 978-0-521-73525-4.

*The Housekeeper and the Professor*, by Yoko Ogawa. Picador, February 2009. ISBN-13: 978-03124-278-01.

*How Math Explains the World: A Guide to the Power of Numbers, from Car Repair to Modern Physics*, by James D. Stein. Collins, April 2008. ISBN-13: 978-00612-417-65.

*How to Think Like a Mathematician: A Companion to Undergraduate Mathematics*, by Kevin Houston.

Cambridge University Press, March 2009. ISBN-13: 978-05217-197-80.

*The Indian Clerk*, by David Leavitt. Bloomsbury USA, September 2007. ISBN-13: 978-15969-1040-9. (Reviewed September 2008.)

*Is God a Mathematician?* by Mario Livio. Simon & Schuster, January 2009. ISBN-13: 978-07432-940-58.

*Kiss My Math: Showing Pre-Algebra Who's Boss*, by Danica McKellar. Hudson Street Press, August 2008. ISBN-13: 978-1594630491.

*The Last Theorem*, by Arthur C. Clarke and Frederik Pohl. Del Rey, August 2008. ISBN-13: 978-0345470218.

*Leonhard Euler and His Friends: Switzerland's Great Scientific Expatriate*, by Luis-Gustave du Pasquier (translated by John S. D. Glaus). CreateSpace, July 2008. ISBN: 978-14348-332-73.

*Lewis Carroll in Numberland: His Fantastical Mathematical Logical Life: An Agony in Eight Fits*, by Robin Wilson. W. W. Norton & Company. ISBN-13: 978-03930-602-70.

*Logic's Lost Genius: The Life of Gerhard Gentzen*, by Eckart Menzler-Trott, Craig Smorynski (translator), Edward R. Griffor (translator). AMS-LMS, November 2007. ISBN-13: 978-0-8218-3550-0.

*The Map of My Life*, by Goro Shimura. Springer, September 2008. ISBN-13: 978-03877-971-44.

*Mathematical Omnibus: Thirty Lectures on Classic Mathematics*, by Dmitry Fuchs and Serge Tabachnikov. AMS, October 2007. ISBN-13: 978-08218-431-61. (Reviewed December 2008.)

*The Mathematician's Brain*, by David Ruelle. Princeton University Press, July 2007. ISBN-13 978-0-691-12982-2. (Reviewed November 2008.)

*Mathematicians of the World, Unite!: The International Congress of Mathematicians: A Human Endeavor*, by Guillermo P. Curbera. A K Peters, March 2009. ISBN-13: 978-15688-133-01.

*Mathematics and the Aesthetic: New Approaches to an Ancient Affinity*, edited by Nathalie Sinclair, David Pimm, and William Higginson. Springer, November 2006. ISBN-13: 978-03873-052-64. (Reviewed February 2009.)

*Mathematics and Common Sense: A Case of Creative Tension*, by Philip

J. Davis. A K Peters, October 2006. ISBN 1-568-81270-1. (Reviewed June/July 2009.)

*Mathematics and Democracy: Designing Better Voting and Fair-Division Procedures*, by Steven J. Brams. Princeton University Press, December 2007. ISBN-13: 978-0691-1332-01.

*Mathematics at Berkeley: A History*, by Calvin C. Moore. A K Peters, February 2007. ISBN-13: 978-1-5688-1302-8. (Reviewed November 2008.)

*Mathematics Emerging: A Sourcebook 1540-1900*, by Jacqueline Stedall. Oxford University Press, November 2008. ISBN-13: 978-01992-269-00.

*Mathematics in Ancient Iraq: A Social History*, by Eleanor Robson. Princeton University Press, August 2008. ISBN-13: 978-06910-918-22.

*Mathematics in India*, by Kim Plofker. Princeton University Press, January 2009. ISBN-13: 978-06911-206-76.

*Mathematics in 10 Lessons: The Grand Tour*, by Jerry P. King. Prometheus Books, May 2009. ISBN: 978-1-59102-686-0.

*The Mathematics of Egypt, Mesopotamia, China, India, and Islam: A Sourcebook*, by Victor J. Katz et al. Princeton University Press, July 2007. ISBN-13: 978-0-6911-2745-3.

*\*The Millenium Prize Problems*, J. Carlson, A. Jaffe, and A. Wiles, editors. American Mathematical Society, 2006. ISBN-13: 978-0-8218-3679-8. (Reviewed in this issue.)

*More Mathematical Astronomy Morsels*, by Jean Meeus. Willmann-Bell, 2002. ISBN 0-943396743.

*Number and Numbers*, by Alain Badiou. Polity, June 2008. ISBN-13: 978-07456-387-82.

*The Numbers Behind NUMB3RS: Solving Crime with Mathematics*, by Keith Devlin and Gary Lorden. Plume, August 2007. ISBN-13: 978-04522-8857-7. (Reviewed March 2009.)

*The Numbers Game: The Commonsense Guide to Understanding Numbers in the News, in Politics, and in Life*, by Michael Blastland and Andrew Dilnot. Gotham, December 2008. ISBN-13: 978-15924-042-30.

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

*One to Nine: The Inner Life of Numbers*, by Andrew Hodges. W. W. Norton, May 2008. ISBN-13: 978-03930-664-18.

*Origami, Eleusis, and the Soma Cube: Martin Gardner's Mathematical Diversions*, by Martin Gardner. Cambridge University Press, September 2008. ISBN-13: 978-0-521-73524-7.

*Our Days Are Numbered: How Mathematics Orders Our Lives*, by Jason Brown. McClelland and Stewart, April 2009. ISBN-13: 978-07710-169-67.

*Out of the Labyrinth: Setting Mathematics Free*, by Robert Kaplan and Ellen Kaplan. Oxford University Press, January 2007. ISBN-13: 978-0-19514-744-5. (Reviewed June/July 2009.)

*A Passion for Discovery*, by Peter Freund. World Scientific, August 2007. ISBN-13: 978-9-8127-7214-5.

*Picturing the Uncertain World: How to Understand, Communicate, and Control Uncertainty Through Graphical Display*, by Howard Wainer. Princeton University Press, April 2009. ISBN-13: 978-06911-375-99.

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

*The Princeton Companion to Mathematics*, edited by Timothy Gowers (June Barrow-Green and Imre Leader, associate editors). Princeton University Press, November 2008. ISBN-13: 978-06911-188-02. (Reviewed November 2009.)

*Professor Stewart's Cabinet of Mathematical Curiosities*, by Ian Stewart. Basic Books, December 2008. ISBN-13: 978-0-465-01302-9.

*Pythagoras' Revenge: A Mathematical Mystery*, by Arturo Sangalli. Princeton University Press, May 2009. ISBN-13: 978-06910-495-57.

*Pythagorean Crimes*, by Tefcros Michalides. Parmenides Publishing, September 2008. ISBN-13: 978-19309-722-78. (Reviewed January 2009.)

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

*Reminiscences of a Statistician: The Company I Kept*, by Erich Lehmann. Springer, November 2007. ISBN-13: 978-0-387-71596-4.

*Rock, Paper, Scissors: Game Theory in Everyday Life*, by Len Fisher. Basic Books, November 2008. ISBN-13: 978-04650-093-81.

*Roots to Research: A Vertical Development of Mathematical Problems*, by Judith D. Sally and Paul J. Sally Jr. AMS, November 2007. ISBN-13: 978-08218-440-38. (Reviewed December 2008.)

*Sacred Mathematics: Japanese Temple Geometry*, by Fukagawa Hidetoshi and Tony Rothman. Princeton University Press, July 2008. ISBN-13: 978-0-6911-2745-3.

*The Shape of Content: An Anthology of Creative Writing in Mathematics and Science*, edited by Chandler Davis, Marjorie Wikler Senechal, and Jan Zwicky. A K Peters, November 2008. ISBN-13: 978-15688-144-45.

*Souvenirs sur Sofia Kovalevskaya* (French), by Michèle Audin. Calvage et Mounet, October 2008. ISBN-13: 978-29163-520-53.

*Strange Attractors: Poems of Love and Mathematics*, edited by Sarah Glaz and JoAnne Growney. A K Peters, November 2008. ISBN-13: 978-15688-134-17. (Reviewed September 2009.)

*Super Crunchers: Why Thinking-by-Numbers Is the New Way to Be Smart*, by Ian Ayres. Bantam, August 2007. ISBN-13: 978-05538-054-06. (Reviewed April 2009.)

*Symmetry: The Ordering Principle* (Wooden Books), by David Wade. Walker and Company, October 2006. ISBN-13: 978-08027-153-88.

*Tools of American Math Teaching, 1800-2000*, by Peggy Aldrich Kidwell, Amy Ackerberg-Hastings, and David Lindsay Roberts. Johns Hopkins University Press, July 2008. ISBN-13: 978-0801888144.

*The Unfinished Game: Pascal, Fermat, and the Seventeenth-Century Letter That Made the World Modern*, by Keith Devlin. Basic Books, September 2008. ISBN-13: 978-0-465-0910-7.

*The Unimaginable Mathematics of Borges' Library of Babel*, by William Goldbloom Bloch. Oxford University Press, August 2008. ISBN-13: 978-01953-345-79.

*What Is a Number?: Mathematical Concepts and Their Origins*, by Robert Tubbs. Johns Hopkins University

Press, December 2008. ISBN-13: 978-08018-901-85.

*What's Happening in the Mathematical Sciences*, by Dana Mackenzie. AMS, 2009. ISBN-13: 978-08218-447-86.

*Why Does  $E=mc^2$ ? (And Why Should We Care?)*, by Brian Cox and Jeff Forshaw. Da Capo Press, July 2009. ISBN-13: 978-03068-175-88.

*The Wraparound Universe*, by Jean-Pierre Luminet. A K Peters, March 2008. ISBN 978-15688-130-97. (Reviewed December 2008.)

*Zeno's Paradox: Unraveling the Ancient Mystery Behind the Science of Space and Time*, by Joseph Mazur. Plume, March 2008 (reprint edition). ISBN-13: 978-0-4522-8917-8.