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HISTORY OF MATHEMATICS

Valuable Perspectives on Mathematics and Its Influential Figures in History



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HISTORY OF MATHEMATICS Valuable Perspectives on Mathematics and Its Influential Figures in History

he titles in this catalog offer compelling historical and educational perspectives on mathematics from the subject's most influential figures. The engaging volumes in this catalog highlight some of the greatest contributors to advancing mathematics, including Ramanujan, Volterra, Poincaré, von Neumann, Artin, and Euler. Each book serves as a valuable addition to any historical and/or mathematical book collection.

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Mathematics: Frontiers and Perspectives V. Arnold, M. Atiyah, P. Lax, and B. Mazur, Editors

One hundred years ago, David Hilbert's famous list of 26 mathematical problems began to catalyze the collective efforts of the world's mathematicians toward a century's worth of new research and achievement. The International Mathematical Union commissioned the current volume to do the same for the century just beginning. Fully half the contributors here own a Fields Medal, mathematics' highest honor (and that does not even count Andrew Wiles). Obviously, simply by dint of the prestige and caliber of the authors, this volume deserves reader attention and a place on every library's shelves. The essays themselves vary from the entirely technical to the purely personal. The sort of reading encounter they offer can set the direction of a whole career, so the undergraduate who picks up this volume now may expect to return here many times in the years to come. -CHOICE Reviews

Individual members of mathematical societies of the IMU member countries can purchase this volume at the AMS member price when buying directly from the AMS.

2000; 459 pp.; softcover; ISBN: 978-0-8218-2697-3; List US\$41; AMS members US\$33; Order code: MFP.S





Poincaré and the Three Body Problem

June Barrow-Green, The Open University, Milton Keynes, UK

Delightful and interesting to read ... will help professors ... provide some very interesting (and needed) historical background to their lectures.

-Applied Mechanics Reviews

Poincaré and the Three Body Problem opens with a discussion of the development of the three body problem itself and Poincaré's related earlier work. The book also contains intriguing insights into the contemporary European mathematical community revealed by the workings of the competition. After an account of the discovery of the error and a detailed comparative study of both the original memoir and its rewritten version, the book concludes with an account of the final memoir's reception, influence and impact, and an examination of Poincaré's subsequent highly influential work in celestial mechanics.

READERSHIP: Graduate students, mathematicians, astronomers, and physicists interested in an historical perspective of mathematics.

History of Mathematics, Volume 11

1997; 272 pp.; softcover; ISBN: 978-0-8218-0367-7; List US\$43; AMS members US\$34; Order code: HMATH/II



Stephen Smale: The Mathematician Who Broke the Dimension Barrier

Steve Batterson, Emory University, Atlanta, GA

Smale's life is inspiring; Batterson's book is fascinating.

-Mathematics Teacher

Steven Smale startled the mathematical world by showing that, in a theoretical sense, it is possible to turn a sphere inside out. This was just one of many startling accomplishments from this most amazing mathematician. This unique biography captures the vision and influence of this extraordinary man.

READERSHIP: General mathematical audience; historians; nonmathematicians interested in biographies.

2000; 306 pp.; hardcover; ISBN: 978-0-8218-2045-2; List US\$37; AMS members US\$30; Order code: MBDB



Codebreakers

Arne Beurling and the Swedish Crypto Program during World War II

Bengt Beckman

This book provides a valuable contribution to the history of cryptology with much new information and added respect for the cryptanalytical achievements of Sweden's signal intelligence agency. It certainly belongs in your personal library. —Cryptologia

One of the greatest accomplishments in the history of cryptography occurred in 1940 when a Swedish mathematician broke the German code used for strategic military communications. This story has all the elements of a classic thriller: a desperate wartime situation; a moody and secretive mathematical genius with a talent for cryptography; and a stunning mathematical feat, mysterious to this day. Arne Beurling, the man who inherited Einstein's office at Princeton's Institute for Advanced Study, was the figure who played this role at a crucial moment in world history.

READERSHIP: General audience; readers interested in history, biography, mathematics, cryptology, and cryptanalysis..

2003; 259 pp.; hardcover; ISBN: 978-0-8218-2889-2; List US\$41; AMS members US\$33; Order code: SWCRY

Order Online | www.ams.org/bookstore

Euclid's Phaenomena

A Translation and Study of a Hellenistic Treatise in Spherical Astronomy

J. L. Berggren, Simon Fraser University, Burnaby, BC, Canada, and R. S. D. Thomas, University of Manitoba, Winnipeg, MB, Canada

This translation of Euclid's *Phaenomena* includes extensive commentary that enhances the context and value of this important historical work. The text includes 18 propositions set out in geometrical style about how arcs of the zodiacal circle move across the sky. Readers get a fascinating look at how Euclid advanced knowledge in astronomy without the tools of trigonometry and spherical geometry.

READERSHIP: Undergraduates, graduate students, and research mathematicians interested in the history of mathematics and astronomical applications of geometry.

History of Mathematics, Volume 29

2006; 132 pp.; softcover; ISBN: 978-0-8218-4072-6; List US\$29; AMS members US\$23; Order code: HMATH/29

Ramanujan: Letters and Commentary

Bruce C. Berndt, University of Illinois, Urbana, IL, and Robert A. Rankin, University of Glasgow, Scotland

The book is very readable, contains much material not available elsewhere and can be read at a variety of levels, so it can be highly recommended to anyone with an interest in Ramanujan.

-Bulletin of the London Mathematical Society

The letters that Ramanujan wrote to G. H. Hardy on January 16 and February 27, 1913, are two of the most famous letters in the history of mathematics. These and other letters introduced Ramanujan and his remarkable theorems to the world and stimulated much research, especially in the 1920s and 1930s. This book brings together many letters to, from, and about Ramanujan.

Ramanujan: Letters and Commentary was selected for the *CHOICE* list of Outstanding Academic Books for 1996.

READERSHIP: General mathematical audience.

History of Mathematics, Volume 9

1995; 347 pages; Softcover; ISBN: 978-0-8218-0470-4; List US\$59; AMS members US\$47; Order code HMATH/9.S







Essays in the History of Lie Groups and Algebraic Groups

Armand Borel, Institute for Advanced Study, Princeton, NJ

...many historians will benefit greatly from the expertise and insights contained in Borel's thoughtful, carefully written essays.

-Centaurus

History of Mathematics, Volume 21

2001; 184 pp.; hardcover; ISBN: 978-0-8218-0288-5; List US\$41; AMS members US\$33; Order code: HMATH/21



Lectures in the History of Mathematics

Henk J. M. Bos, Mathematics Institute, Utrecht, Netherlands

This volume contains eleven lectures ranging over a variety of topics in the history of mathematics. The lectures, presented between 1970 and 1987, were delivered in a variety of venues and appeared only in less accessible publications. Those who teach mathematics, as well as mathematics historians, will appreciate this insightful, wide-ranging book.

READERSHIP: Mathematics professors and mathematical historians.

History of Mathematics, Volume 7

1993; 197 pp.; softcover; ISBN: 978-0-8218-0920-4; List US\$43; AMS members US\$34; Order code: HMATH/7.S



Pioneers of Representation Theory: Frobenius, Burnside, Schur, and Brauer

Charles W. Curtis, University of Oregon, Eugene, OR

This book presents the early history of an active branch of mathematics. It includes enough detail to enable readers to learn the mathematics along with the history.

READERSHIP: Graduate students and research mathematicians; mathematical historians.

History of Mathematics, Volume 15

1999; 292 pp.; softcover; ISBN: 978-0-8218-2677-5; List US\$41; AMS members US\$33; Order code: HMATH/15.S

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The Coxeter Legacy Reflections and Projections

Chandler Davis and **Erich W. Ellers**, University of Toronto, ON, Canada, Editors

This collection of articles by outstanding researchers and expositors captures Donald Coxeter's lasting contributions to mathematics and to the artistic and scientific communities. The book covers Coxeter groups, polytopes, configurations, visualization, and the interaction of mathematics and art. Biographical information, personal memories and rich illustrations help capture the essence of Coxeter's work and his expression of mathematics' inherent beauty.

READERSHIP: Mathematicians, artists, model makers with a university degree, preferably in mathematics.

A co-publication of the AMS and The Fields Institute for Research in Mathematical Sciences (Toronto, Ontario, Canada).

2006; 320 pp.; hardcover; ISBN: 978-0-8218-3722-1; List US\$69; AMS members US\$55; Order code: COXETER

The Volterra Chronicles

The Life and Times of an Extraordinary Mathematician 1860–1940

Judith R. Goodstein, California Institute of Technology, Pasadena, CA

The tumultuous life and extraordinary contributions of Italian mathematician and scientist Vito Volterra are chronicled in this richly illustrated book, the first full-scale biography available. The text chronicles Volterra's meteoric rise as a leader in Italy's modern scientific renaissance and his tragic fall under the rule of Benito Mussolini. Based partly on unpublished family letters, the book explores the family dynamics and historical influences that shaped this pioneering mathematician.

READERSHIP: Undergraduates interested in history and the history of mathematics.

History of Mathematics, Volume 31

2007; 310 pp.; hardcover; ISBN: 978-0-8218-3969-0; List US\$59; AMS members US\$47; Order code: HMATH/31

Non-Euclidean Geometry in the Theory of Automorphic Functions

Jacques Hadamard (edited by Jeremy J. Gray and Abe Shenitzer)

History of Mathematics, Volume 17

2000; 95 pp.; softcover; ISBN: 978-0-8218-2030-8; List US\$20; AMS members US\$16; Order code: HMATH/17





Figures in History

History of Mathematics



A History of Analysis

Hans Niels Jahnke, University of Essen, Germany, Editor

This book is very good at tying biographies to the development of the mathematics and to the related developments in science ... recommended for academic and research mathematics, physics, and history of science collections. –E-STREAMS

History of Mathematics, Volume 24

2003; 422 pp.; hardcover; ISBN: 978-0-8218-2623-2; List US\$89; AMS members US\$71; Order code: HMATH/24



Change Is Possible

Stories of Women and Minorities in Mathematics

Patricia Clark Kenschaft, Montclair State University, Upper Montclair, NJ

The author is a skilled storyteller with good stories to tell. This book is a page-turner that all mathematicians—as well as others concerned with equality—should read. It is a work of great interest and an enjoy-able read.

2005; 212 pp.; softcover; ISBN: 978-0-8218-3748-1; List US\$29; AMS members US\$23; Order code: CHANGE



Kolmogorov in Perspective

This book, *Kolmogorov in Perspective*, includes articles written by Kolmogorov's students and colleagues and his personal accounts of shared experiences and lifelong mathematical friendships. The articles combine to give an excellent personal and scientific biography of this important mathematician. There is also an extensive bibliography with the complete list of Kolmogorov's works—including the articles written for encyclopedias and newspapers. The book is illustrated with photographs and includes quotations from Kolmogorov's letters and conversations, uniquely reflecting his mathematical tastes and opinions.

READERSHIP: Graduate students, mathematicians, and historians.

History of Mathematics, Volume 20

2000; 230 pp.; softcover; ISBN: 978-0-8218-2918-9; List US\$51; AMS members US\$41; Order code: HMATH/20.S

John von Neumann

The Scientific Genius Who Pioneered the Modern Computer, Game Theory, Nuclear Deterrence, and Much More

Norman Macrae

(This) book is a highly entertaining account that is difficult to put down. —Journal of Mathematical Psychology

...makes for utterly, captivating reading. —Daniel J. Kevles, California Institute of Technology

From the laboratory to the highest levels of government, this definitive biography gives us a behind-the-scenes look at the politics and personalities involved in these world-changing discoveries. Written more than 30 years after von Neumann's untimely death at age 54, it was prepared with the cooperation of his family and includes information gained from interviewing countless sources across Europe and America. Norman Macrae paints a highly readable, humanizing portrait of a man whose legacy still influences and shapes modern science and knowledge.

READERSHIP: General mathematical audience; historians of science.

1992; 406 pp.; softcover; ISBN: 978-0-8218-2676-8; List US\$30; AMS members US\$24; Order code: JVNM.S

John von Neumann





Bourbaki

A Secret Society of Mathematicians

Maurice Mashaal, Pour la Science, Paris, France

The author, Maurice Mashaal, portrays the protagonists of the secret society and describes their aims, successes, and failures in an entertaining and refreshingly readable style.

-translated from Neue Zürcher Zeitung

This book lifts the veil from a secret society in which spirited debate, good humor, and a unified purpose helped generate the most influential mathematical treatise of the 20th century. It chronicles how the Bourbaki group saw its mission grow into creation of a universal collection of mathematical tools, shaping thought on mathematics from 1950 to the 1970s. Remarkable photographs and rich anecdotes enliven the text.

READERSHIP: General mathematical audience.

2006; 168 pp.; softcover; ISBN: 978-0-8218-3967-6; List US\$29; AMS members US\$23; Order code: BOURBAKI



Jacques Hadamard, A Universal Mathematician

Vladimir Maz'ya and Tatyana Shaposhnikova, Linköping University, Sweden

...extremely rich material collected, ordered and presented in an interesting, attractive and readable form. The authors have done an excellent job and the result deserves much attention from professional mathematicians and historians of science, as well as from students with an interest in mathematics.

-EMS Newsletter

This book presents a fascinating story of the long life and great accomplishments of Jacques Hadamard (1865–1963), who was once called "the living legend of mathematics". As one of the last universal mathematicians, Hadamard's contributions to mathematics are landmarks in various fields. His life is linked with world history of the 20th century in a dramatic way. This work provides an inspiring view of the development of various branches of mathematics during the 19th and 20th centuries.

READERSHIP: General mathematical audience; beginners and experts interested in mathematical history.

History of Mathematics, Volume 14 1998; 574 pp.; softcover; ISBN: 978-0-8218-1923-4; List US\$54; AMS members US\$43; Order code: HMATH/14.S

The Fermat Diary



The Fermat Diary

C. J. Mozzochi, Princeton, NJ

Mozzochi provides us with a great deal of valuable primary data. The photographs, in particular, will be of great value to future historians.

-American Scientist

This eyewitness account focuses on the players and personalities who played a role in solving one of the most famous mathematics problems of our time.

READERSHIP: Mathematicians and the general public interested in Fermat's Last Theorem and the mathematicians and mathematics involved in solving the puzzle.

2000; 196 pp.; hardcover; ISBN: 978-0-8218-2670-6; List US\$30; AMS members US\$24; Order code: FERMATD

Figures in History

Episodes in the History of Modern Algebra (1800–1950)

Karen Hunger Parshall, University of Virginia, Charlottesville, VA, and Jeremy J. Gray, The Open University, Milton Keynes, England, Editors

The present volume provides a glimpse into the complicated and often convoluted history of this latter conception of algebra by juxtaposing twelve episodes in the evolution of modern algebra from the early nineteenth-century work of Charles Babbage on functional equations to Alexandre Grothendieck's mid-twentieth-century metaphor of a "rising sea" in his categorical approach to algebraic geometry. In addition to considering the technical development of various aspects of algebraic thought, the historians of modern algebra whose work is united in this volume explore such themes as the changing aims and organization of the subject as well as the often complex lines of mathematical communication within and across national boundaries.

READERSHIP: Graduate students and research mathematicians interested in the history of mathematics and algebra.

History of Mathematics, Volume 32

2007; 336 pages; hardcover; ISBN: 978-0-8218-4343-7; List US\$69; AMS members US\$55; Order code HMATH/32

John von Neumann: Selected Letters

Miklós Rédei, Eotvos Lorand University, Budapest, Hungary, Editor

History of Mathematics, Volume 27

2005; 301 pp.; hardcover; ISBN: 978-0-8218-3776-4; List US\$59; AMS members US\$47; Order code: HMATH/27

Exposition by Emil Artin: A Selection

Michael Rosen, Brown University, Providence, RI, Editor

This extensive selection of Emil Artin's writings illustrates the elegance and depth of this true master's approach to mathematics. The book includes reprints of three short books and a series of articles, including three first-ever English translations of papers on real fields. A short biography of this highly influential mathematician is included in the introduction.

READERSHIP: Advanced undergraduates, graduate students, and research mathematicians interested in number theory and related topics in the history of mathematics.

History of Mathematics, Volume 30

2006; 346 pp.; softcover; ISBN: 978-0-8218-4172-3; List US\$59; AMS members US\$47; Order code: HMATH/30





History of Mathematics



The Way I Remember It

Walter Rudin, University of Wisconsin, Madison, WI

You will not want to miss a single page of it ...

-Mathematical Reviews

Walter Rudin's memoirs should prove to be a delightful read specifically to mathematicians, but also to historians who are interested in learning about his colorful history and ancestry. Characterized by his personal style of elegance, clarity, and brevity, Rudin presents in the first part of the book his early memories about his family history, his boyhood in Vienna throughout the 1920s and 1930s, and his experiences during World War II.

Part II offers samples of his work, in which he relates where problems came from, what their solutions led to, and who else was involved. As those who are familiar with Rudin's writing will recognize, he brings to this book the same care, depth, and originality that is the hallmark of his work.

READERSHIP: Historians and general mathematical audience.

History of Mathematics, Volume 12

1997; 191 pp.; softcover; ISBN: 978-0-8218-0633-3; List US\$32; AMS members US\$26; Order code: HMATH/12



Euler Through Time A New Look at Old Themes

V. S. Varadarajan, University of California, Los Angeles, CA

This book has been written with the greatest insight, expertise, experience, and passion on the part of the author's, and it should be seen as what it really is: a cultural jewel in the mathematical literature as a whole! —Zentralblatt MATH

This book synthesizes hundreds of years of thought on Eulerian theories to place the work of the world's most prolific mathematician into the context of today's thinking. The primary focus is on Euler's work on infinite series and products and its influence on modern thought. The author examines Euler products and ties his work to the climactic developments reached by number theorists and the Langlands program.

READERSHIP: Undergraduates, graduate students, and research mathematicians interested in the history of mathematics and Euler's influence on modern mathematics.

2006; 302 pp.; hardcover; ISBN: 978-0-8218-3580-7; List US\$59; AMS members US\$47; Order code: EULER

Figures in History

Golden Years of Moscow Mathematics Second Edition

Smilka Zdravkovska, Mathematical Reviews, Ann Arbor, MI, and Peter L. Duren, University of Michigan, Ann Arbor, MI, Editors

The second edition of this historical look at Soviet mathematics focuses on the individuals, the mathematical developments, and the political events that shaped the glorious years of Moscow mathematics. A new article by Tikhomirov looks at Moscow mathematics then and now. Annotated bibliographies in English and Russian highlight further learning opportunities.

READERSHIP: Undergraduates, graduate students and research mathematicians interested in the history of mathematics, especially in Russia.

History of Mathematics, Volume 6

2007; 306 pp.; hardcover; ISBN: 978-0-8218-4261-4; List US\$59; AMS members US\$47; Order code: HMATH/6.R



CORRES Idition of the mathlieck and J-P. Serre. mented here by the

Grothendieck-Serre Correspondence Bilingual Edition

The book is a bilingual (French and English) edition of the mathematical correspondence between A. Grothendieck and J-P. Serre. The original French text of 84 letters is supplemented here by the English translation, with French text printed on the left-hand pages and the corresponding English text printed on the right-hand pages. The book also includes several facsimiles of original letters.

READERSHIP: Specialists in algebraic geometry, mathematical historians, and general mathematical audience.

This book is jointly published by the AMS and the Société Mathématique de France. SMF members are entitled to AMS member discounts.

2004; 600 pp.; hardcover; ISBN: 978-0-8218-3424-4; List US\$69; AMS members US\$55; Order code: CGS



INDEX

Arnold, V
Atiyah, M 3
Barrow-Green, June 3
Batterson, Steve
Beckman, Bengt4
Berggren, J. L
Berndt, Bruce C5
Borel, Armand
Bos, Henk J. M
Bourbaki
Change Is Possible
Codebreakers
The Coxeter Legacy7
Curtis, Charles W
Davis, Chandler7
Duren, Peter L
Ellers, Erich W7
Episodes in the History of Modern Algebra (1800–1950)11
Essays in the History of Lie Groups and Algebraic Groups
Euclid's Phaenomena5
Euler Through Time12
Exposition by Emil Artin: A Selection11
The Fermat Diary10
Golden Years of Moscow Mathematics 13
Goodstein, Judith R7
Gray, Jeremy J11
Grothendieck-Serre Correspondence13
Hadamard, Jacques7
A History of Analysis
Jacques Hadamard, A Universal Mathematician10

Jahnke, Hans Niels
John von Neumann9
John von Neumann: Selected Letters11
Kenschaft, Patricia Clark8
Kolmogorov in Perspective
Lax, P
Lectures in the History of Mathematics 6
Macrae, Norman9
Mashaal, Maurice9
Mathematics: Frontiers and Perspectives 3
Mazur, B
Maz'ya, Vladimir10
Mozzochi, C. J
Non-Euclidean Geometry in the Theory of Automorphic Functions7
Parshall, Karen Hunger
Pioneers of Representation Theory: Frobenius, Burnside, Schur, and Brauer6
Pioneers of Representation Theory: Frobenius, Burnside, Schur, and Brauer
Burnside, Schur, and Brauer6
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem 3
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem 3 Ramanujan: Letters and Commentary 5
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem 3 Ramanujan: Letters and Commentary 5 Rankin, Robert A 5
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem 3 Ramanujan: Letters and Commentary 5 Rankin, Robert A 5 Rédei, Miklós 11
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem 3 Ramanujan: Letters and Commentary 5 Rankin, Robert A 5 Rédei, Miklós 11 Rosen, Michael 11
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem 3 Ramanujan: Letters and Commentary 5 Rankin, Robert A 5 Rédei, Miklós 11 Rosen, Michael 11 Rudin, Walter 12
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem 3 Ramanujan: Letters and Commentary 5 Rankin, Robert A 5 Rédei, Miklós 11 Rosen, Michael 11 Rudin, Walter 12 Shaposhnikova, Tatyana 10 Stephen Smale: The Mathematician Who Broke
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem. 3 Ramanujan: Letters and Commentary 5 Rankin, Robert A 5 Rédei, Miklós 11 Rosen, Michael 11 Rudin, Walter 12 Shaposhnikova, Tatyana 10 Stephen Smale: The Mathematician Who Broke the Dimension Barrier 4
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem 3 Ramanujan: Letters and Commentary 5 Rankin, Robert A 5 Rédei, Miklós 11 Rosen, Michael 11 Rudin, Walter 12 Shaposhnikova, Tatyana 10 Stephen Smale: The Mathematician Who Broke the Dimension Barrier 4 Thomas, R. S. D. 5
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem 3 Ramanujan: Letters and Commentary 5 Rankin, Robert A 5 Rédei, Miklós 11 Rosen, Michael 11 Rudin, Walter 12 Shaposhnikova, Tatyana 10 Stephen Smale: The Mathematician Who Broke the Dimension Barrier 4 Thomas, R. S. D. 5 Varadarajan, V. S. 12
Burnside, Schur, and Brauer 6 Poincaré and the Three Body Problem. 3 Ramanujan: Letters and Commentary 5 Rankin, Robert A 5 Rédei, Miklós 11 Rosen, Michael 11 Rudin, Walter 12 Shaposhnikova, Tatyana 10 Stephen Smale: The Mathematician Who Broke the Dimension Barrier 4 Thomas, R. S. D. 5 Varadarajan, V. S. 12 The Volterra Chronicles 7

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