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**Disquisitiones Arithmeticae** - Carl Friedrich Gauss - 2018-02-07
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Classic biography of Gauss, updated with new introduction, bibliography and new material.

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**General Investigations of Curved Surfaces of 1827 and 1825** - Carl Friedrich Gauss - 1902

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**Theory of the Motion of the Heavenly Bodies Moving about the Sun in Conic Sections** - Carl Friedrich Gauss - 1857

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**Carl Friedrich Gauss (Gauss, Matematikernas Konung. Engl.) A Biography. Transl. by Albert Froderberg. [Mit Fig. U. Diagr.]** - Tord Hall - 1970

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**Carl Friedrich Gauss** - Krista West - 2009
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**Measuring the World** - Daniel Kehlmann - 2009-03-12
Measuring the World marks the debut of a glorious new talent on the international scene. Young Austrian writer Daniel Kehlmann’s brilliant comic novel revolves around the meeting of two colossal geniuses of the...
Enlightenment. Late in the eighteenth century, two young Germans set out to measure the world. One of them, the aristocratic naturalist Alexander von Humboldt, negotiates jungles, voyages down the Orinoco River, tastes poisons, climbs the highest mountain known to man, counts head lice, and explores and measures every cave and hill he comes across. The other, the reclusive and barely socialized mathematician Carl Friedrich Gauss, can prove that space is curved without leaving his home. Terrifyingly famous and wildly eccentric, these two polar opposites finally meet in Berlin in 1828, and are immediately embroiled in the turmoil of the post-Napoleonic world.

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Gauss - W. K. Bühler - 2012-12-06
Procreare iucundum, sed parturire molestum. (Gauss, sec. Eisenstein) The plan of this book was first conceived eight years ago. The manuscript developed slowly through several versions until it attained its present form in 1979. It would be inappropriate to list the names of all the friends and advisors with whom I discussed my various drafts but I should like to mention the name of Mr. Gary Cornell who, besides discussing with me numerous details of the manuscript, revised it stylistically. There is much interest among mathematicians to know more about Gauss’s life, and the generous help I received has certainly more to do with this than with any individual, positive or negative, aspect of my manuscript. Any mistakes, errors of judgement, or other inadequacies are, of course, the author's responsibility. The most incisive and, in a way, easiest decisions I had to make were those of personal taste in the choice and treatment of topics. Much had to be omitted or could only be discussed in a cursory way.

The Chequered Career of Ferdinand Rudolph Hassler - Florian Cajori - 1980-01-01

The Queen of Mathematics - W.S. Anglin - 2012-12-06
Like other introductions to number theory, this one includes the usual
curtsy to divisibility theory, the bow to congruence, and the little chat with quadratic reciprocity. It also includes proofs of results such as Lagrange's Four Square Theorem, the theorem behind Lucas's test for perfect numbers, the theorem that a regular n-gon is constructible just in case \( \phi(n) \) is a power of 2, the fact that the circle cannot be squared, Dirichlet's theorem on primes in arithmetic progressions, the Prime Number Theorem, and Rademacher's partition theorem. We have made the proofs of these theorems as elementary as possible. Unique to The Queen of Mathematics are its presentations of the topic of palindromic simple continued fractions, an elementary solution of Lucas's square pyramid problem, Baker's solution for simultaneous Fermat equations, an elementary proof of Fermat's polygonal number conjecture, and the Lambek-Moser-Wild theorem.

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**Makers of Mathematics** - Stuart Hollingdale - 2014-06-10
Each chapter of this accessible portrait of the evolution of mathematics examines the work of an individual — Archimedes, Descartes, Newton, Einstein, others — to explore the mathematics of his era. 1989 edition.

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**Disquisitiones Arithmeticae** - Carl F. Gauss - 1986-05-01
Since its publication, C.F. Gauss's *Disquisitiones Arithmeticae* (1801) has acquired an almost mythical reputation, standing as an ideal of exposition in notation, problems and methods; as a model of organisation and theory building; and as a source of mathematical inspiration. Eighteen authors - mathematicians, historians, philosophers - have collaborated in this volume to assess the impact of the Disquisitiones, in the two centuries since its publication.

**The Shaping of Arithmetic after C.F. Gauss's Disquisitiones Arithmeticae** - Catherine Goldstein - 2007-02-03
Since its publication, C.F. Gauss's *Disquisitiones Arithmeticae* (1801) has acquired an almost mythical reputation, standing as an ideal of exposition in notation, problems and methods; as a model of organisation and theory building; and as a source of mathematical inspiration. Eighteen authors - mathematicians, historians, philosophers - have collaborated in this volume to assess the impact of the Disquisitiones, in the two centuries since its publication.

**Terrestrial Magnetism** - G. Hulot - 2014-11-22
The articles in this volume provide a detailed review of all aspects of the main magnetic field of the Earth produced within the Earth’s core: its past history, its long and short term changes, the way it is generated. The book contains the combined knowledge of geomagnetism coming from paleomagnetic and archeomagnetic data, centuries of terrestrial observations and from the past few decades of intensive space observations. There is considerable emphasis on the phenomenology and the physical processes of the evolution of the geomagnetic field on different timescales. The book reports fully on our understanding of the present state of the magnetic field and its expected evolution in the future.

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**Simply Riemann** - Jeremy Gray - 2019-12-19

“Jeremy Gray is one of the world’s leading historians of mathematics, and an accomplished author of popular science. In Simply Riemann he combines both talents to give us clear and accessible insights into the astonishing discoveries of Bernhard Riemann—a brilliant but enigmatic mathematician who laid the foundations for several major areas of today’s mathematics, and for Albert Einstein’s General Theory of Relativity. Readable, organized—and simple. Highly recommended.” —Ian Stewart, Emeritus Professor of Mathematics at Warwick University and author of Significant Figures Born to a poor Lutheran pastor in what is today the Federal Republic of Germany, Bernhard Riemann (1826-1866) was a child math prodigy who began studying for a degree in theology before formally committing to mathematics in 1846, at the age of 20. Though he would live for only another 20 years (he died of pleurisy during a trip to Italy), his seminal work in a number of key areas—several of which now bear his name—had a decisive impact on the shape of mathematics in the succeeding century and a half. In Simply Riemann, author Jeremy Gray provides a comprehensive and intellectually stimulating introduction to Riemann’s life and paradigm-defining work. Beginning with his early influences—in particular, his relationship with his renowned predecessor Carl Friedrich Gauss—Gray goes on to explore Riemann’s specific contributions to geometry, functions of a complex variable, prime numbers, and functions of a real variable, which opened the way to discovering the limits of the calculus. He shows how without Riemannian geometry, cosmology after Einstein would be unthinkable, and he illuminates the famous Riemann hypothesis, which many regard as the most important unsolved problem in mathematics today. With admirable concision and clarity, Simply Riemann opens the door on one of the most profound and original thinkers of the 19th century—a man who pioneered the concept of a multidimensional reality and who always saw his work as another way to serve God.

**The Mathematical Heritage of C F Gauss** - George M. Rassias - 1991-09-01

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This volume is a collection of original and expository papers in the fields of Mathematics in which Gauss had made many fundamental discoveries. The contributors are all outstanding in their fields and the volume will be of great interest to all research mathematicians, research workers in the history of science, and graduate students in Mathematics and Mathematical Physics.

Formulations of General Relativity - Kirill Krasnov - 2020-11-26
Carefully documenting the different formulations of general relativity, the author reveals valuable insight into the nature of the gravitational force and its interaction with matter. This book will interest graduate students and researchers in the fields of general relativity, gravitational physics and differential geometry.

Imaginary Quantities - Jean Robert Argand - 1881

Bernhard Riemann 1826-1866 - Detlef Laugwitz - 2009-06-08
The name of Bernard Riemann is well known to mathematicians and physicists around the world. His name is indelibly stamped on the literature of mathematics and physics. This remarkable work, rich in insight and scholarship, is addressed to mathematicians, physicists, and philosophers interested in mathematics. It seeks to draw those readers closer to the underlying ideas of Riemann’s work and to the development of them in their historical context. This illuminating English-language version of the original German edition will be an important contribution to the literature of the history of mathematics.

The Foundations of Geometry - David Hilbert - 1902

Landmark Writings in Western Mathematics 1640-1940 - Ivor Grattan-Guinness - 2005-02-11
This book contains around 80 articles on major writings in mathematics published between 1640 and 1940. All aspects of mathematics are covered: pure and applied, probability and statistics, foundations and philosophy. Sometimes two writings from the same period and the same subject are taken together. The biography of the author(s) is recorded, and the circumstances of the preparation of the writing are given. When the writing is of some length an analytical table of its contents is supplied. The contents of the writing is reviewed, and its impact described, at least for the immediate decades. Each article ends with a bibliography of primary and secondary items. First book of its kind Covers the period 1640-1940 of massive development in mathematics Describes many of the main writings of mathematics Articles written by specialists in their field

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**That's Maths** - Peter Lynch - 2016-10-14
From atom bombs to rebounding slinkies, open your eyes to the mathematical magic in the everyday. Mathematics isn’t just for academics and scientists, a fact meteorologist and blogger Peter Lynch has spent the past several years proving through his Irish Times newspaper column and blog, That’s Maths. Here, he shows how maths is all around us, with chapters on the beautiful equations behind designing a good concert venue, predicting the stock market and modelling the atom bomb, as well as playful meditations on everything from coin-stacking to cartography. If you left school thinking maths was boring, think again!

**How Not to be Wrong** - Jordan Ellenberg - 2015
"Using the mathematician's method of analyzing life and exposing the hard-won insights of the academic community to the layman, minus the jargon Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need"--

**Number Theory with Computer Applications** - Ramanujachary Kumanduri - 1998
Appropriate for most courses in Number Theory. This book effectively integrates computing algorithms into the number theory curriculum using a heuristic approach and strong emphasis on proofs. Its in-depth coverage of modern applications considers the latest trends and topics, such as elliptic curves a subject that has seen a rise in popularity due to its use in the proof of Fermat's Last Theorem.

**Theory of the Combination of Observations Least Subject to Error** - Carl Friedrich Gauss - 1995-01-01
In the 1820s Gauss published two memoirs on least squares, which contain his final, definitive treatment of the area along with a wealth of material on probability, statistics, numerical analysis, and geodesy. These memoirs, originally published in Latin with German Notices, have been inaccessible to the English-speaking community. Here for the first time they are collected in an English translation. For scholars interested in comparisons the book includes the original text and the English translation on facing pages. More generally the book will be of interest to statisticians, numerical analysts,
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**The History of Mathematics** - David M. Burton - 1991
This text is designed for the junior/senior mathematics major who intends to teach mathematics in high school or college. It concentrates on the history of those topics typically covered in an undergraduate curriculum or in elementary schools or high schools. At least one year of calculus is a prerequisite for this course. This book contains enough material for a 2 semester course but it is flexible enough to be used in the more common 1 semester course.

**Biostatistics For Dummies** - John Pezzullo - 2013-07-10
Score your highest in biostatistics Biostatistics is a required course for students of medicine, epidemiology, forestry, agriculture, bioinformatics, and public health. In years past this course has been mainly a graduate-level requirement; however its application is growing and course offerings at the undergraduate level are exploding. Biostatistics For Dummies is an excellent resource for those taking a course, as well as for those in need of a handy reference to this complex material. Biostatisticians—analysts of biological data—are charged with finding answers to some of the world's most pressing health questions: how safe or effective are drugs hitting the market today? What causes autism? What are the risk factors for cardiovascular disease? Are those risk factors different for men and women or different ethnic groups? Biostatistics For Dummies examines these and other questions associated with the study of biostatistics. Provides plain-English explanations of techniques and clinical examples to help Serves as an excellent course supplement for those struggling with the complexities of the biostatistics Tracks to a typical, introductory biostatistics course Biostatistics For Dummies is an excellent resource for anyone looking to succeed in this difficult course.

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God Created The Integers - Stephen Hawking - 2007-03-29
Bestselling author and physicist Stephen Hawking explores the "masterpieces" of mathematics, 25 landmarks spanning 2,500 years and representing the work of 15 mathematicians, including Augustin Cauchy, Bernard Riemann, and Alan Turing. This extensive anthology allows readers to peer into the mind of genius by providing them with excerpts from the original mathematical proofs and results. It also helps them understand the progression of mathematical thought, and the very foundations of our present-day technologies. Each chapter begins with a biography of the featured mathematician, clearly explaining the significance of the result, followed by the full proof of the work, reproduced from the original publication.

Carl Friedrich Gauss Letter to August Ferdinand Möbius - Carl Friedrich Gauss - 1816
Letter written by Gauss in Göttingen to Möbius in Leipzig. Gauss begins by thanking Möbius for the gift of a copy of his work and apologizing for not having written sooner. He continues by expressing his heartfelt hope that Möbius will be appointed professor of astronomy in Leipzig (as indeed happened later that year) and his conviction that Möbius will make significant scientific contributions in that position. Gauss also mentions that in the past winter he has submitted two papers on the Fundamental Theorem of the Theory of Equations (what is now known as the Fundamental Theorem of Algebra) to the Göttingen scientific society. Gauss remarks that the construction of the new observatory in Göttingen is quite far along, and that he hopes to be able to move into his residence (in the observatory) by the next fall. He concludes with his best wishes to the astronomer Karl Mollweide at Leipzig.

Euler: The Master of Us All - William Dunham - 2020-07-29
Recipient of the Mathematical Association of America’s Beckenbach Book Prize in 2008! Leonhard Euler was one of the most prolific mathematicians that have ever lived. This book examines the huge scope of mathematical areas explored and developed by Euler, which includes number theory, combinatorics, geometry, complex variables and many more. The information known to Euler over 300 years ago is discussed, and many of his advances are reconstructed. Readers will be left in no doubt about the brilliance and pervasive influence of Euler's work.
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### A Synopsis of Elementary Results in Pure and Applied Mathematics
George Shoobridge Carr - 1880

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### A First Course in Abstract Algebra
Joseph J. Rotman - 2000
This spectacularly clear introduction to abstract algebra is designed to make the study of all required topics and the reading and writing of proofs both accessible and enjoyable for readers encountering the subject for the first time. Number Theory. Groups. Commutative Rings. Modules. Algebras. Principal Idea Domains. Group Theory II. Polynomials In Several Variables. For anyone interested in learning abstract algebra.

### Sophie Germain
L.L. Bucciarelli - 2012-12-06
Why should the story of a woman's role in the development of a scientific theory be written? Is it to celebrate, as some have done, the heroism of a woman's struggle in a man's world? Or is it, rather, to demonstrate that gender is irrelevant to the march of scientific ideas? This book hopes to do neither. Rather, it intends to do justice both to the professional life of a woman in science and to the development of the theory with which she was engaged. Technically, this essay centers on Sophie Germain's analysis of the modes of vibration of elastic surfaces, work which won a competition set by the French Academy of Sciences in 1809. It also evaluates related work on the mathematical theory of elasticity done by men of the Academy. Biographically, it is about a woman who believed in the greatness of science and strove, with some measure of success, to participate in that noble, but wholly male-dominated, enterprise. It explores her failures, analyzes her success, and describes how the members of the Parisian scientific community dealt with her offerings, contributions and demands.

### The Concept of a Riemann Surface
Hermann Weyl - 2013-12-31
This classic on the general history of functions combines function theory and geometry, forming the basis of the modern approach to analysis, geometry, and topology. 1955 edition.

### Photoshop CS4: The Missing Manual
Lesa Snider - 2008-12-26
Photoshop is the world's most widely used photo-editing and graphics program. But with all its fantastic new features and options, the CS4 version can bewilder even the most seasoned professional. That's where Photoshop CS4: The Missing Manual comes in: packed with tips, tricks, and lots of practical advice, this visually rich four-color guidebook teaches you everything you need to know to edit photos and create beautiful documents in Photoshop. Whether you're an absolute beginner or a power user ready to...
try some advanced techniques, author and graphics pro Lesa Snider King offers crystal-clear, jargon-free instructions to help you take advantage of these powerful tools -- not only how they work, but when you should use them. You'll quickly get up to speed on new CS4 features such as: Photoshop's completely revamped workspace Smoother image display and quick zoom, including the new pixel grid view New Masks and Adjustments panels The Vibrance adjustment layer Hand-painting adjustments and using graduated filters in Camera Raw Enhanced Adobe Bridge And much more. You'll also find out which features work well, and which aren't worth your time. Written with the clarity, humor, and objective scrutiny that are hallmarks of the Missing Manual series, Photoshop CS4: The Missing Manual is the friendly, thorough resource you need. Why settle for anything less? "Lesa did a great job on the book, and in my mind, it is the new Photoshop Bible."-- Scott Kelby, Photoshop Insider

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