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The History of Mathematics Jan 23 2024 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.

The Adult Learner Oct 08 2022 How do you tailor education to the learning needs of adults? Do they learn differently from children? How does their life experience inform their learning processes? These were the questions at the heart of Malcolm Knowles' pioneering theory of andragogy which transformed education theory in the 1970s. The resulting principles of a self-directed, experiential, problem-centred approach to learning have been hugely influential and are still the basis of the learning practices we use today. Understanding these principles is the cornerstone of increasing motivation and enabling adult learners to achieve. The 9th edition of The Adult Learner has been revised to include: Updates to the book to reflect the very latest advancements in the field. The addition of two new chapters on diversity and inclusion in adult learning, and andragogy and the online adult learner. An updated supporting website. This website for the 9th edition of The Adult Learner will provide basic instructor aids. For each chapter, there will be a PowerPoint presentation, learning exercises, and added study questions. Revisions throughout to make it more readable and relevant to your practices. If you are a researcher, practitioner, or student in education, an adult learning practitioner, training manager, or involved in human resource development, this is the definitive book in adult learning you should not be without.

EBOOK: Elementary Number Theory Apr 02 2022 Elementary Number Theory, Seventh Edition, is written for the one-semester undergraduate number theory course taken by math majors, secondary education majors, and computer science students. This contemporary text provides a simple account of classical number theory, set against a historical background that shows the subject's evolution from antiquity to recent research. Written in David Burton's engaging style, Elementary Number Theory reveals the attraction that has drawn leading mathematicians and amateurs alike to number theory over the course of history.

Advanced Calculus May 03 2022 An authorised reissue of the long out of print classic textbook, Advanced Calculus by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial

derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

Discrete Mathematics and Its Applications Aug 26 2021 The companion Web site -- To the student -- The foundations : logic, sets, and functions -- The fundamentals : algorithms, the integers, and matrices -- Mathematical reasoning -- Counting -- Advanced counting techniques -- Relations -- Graphs -- Trees -- Boolean algebra -- Modeling computation

Principia Mathematica Mar 01 2022

Elementary Number Theory, Cryptography and Codes Jun 04 2022 In this volume one finds basic techniques from algebra and number theory (e.g. congruences, unique factorization domains, finite fields, quadratic residues, primality tests, continued fractions, etc.) which in recent years have proven to be extremely useful for applications to cryptography and coding theory. Both cryptography and codes have crucial applications in our daily lives, and they are described here, while the complexity problems that arise in implementing the related numerical algorithms are also taken into due account. Cryptography has been developed in great detail, both in its classical and more recent aspects. In particular public key cryptography is extensively discussed, the use of algebraic geometry, specifically of elliptic curves over finite fields, is illustrated, and a final chapter is devoted to quantum cryptography, which is the new frontier of the field. Coding theory is not discussed in full; however a chapter, sufficient for a good introduction to the subject, has been devoted to linear codes. Each chapter ends with several complements and with an extensive list of exercises, the solutions to most of which are included in the last chapter. Though the book contains advanced material, such as cryptography on elliptic curves, Goppa codes using algebraic curves over finite fields, and the recent AKS polynomial primality test, the authors' objective has been to keep the exposition as self-contained and elementary as possible. Therefore the book will be useful to students and researchers, both in theoretical (e.g. mathematicians) and in applied sciences (e.g. physicists, engineers, computer scientists, etc.) seeking a friendly introduction to the important subjects treated here. The book will also be useful for teachers who intend to give courses on these topics.

Elementary Number Theory and Its Applications May 23 2021 Elementary Number Theory and Its Applicationsis noted for its outstanding exercise sets, including basic exercises, exercises designed to help students explore key concepts, and challenging exercises. Computational exercises and computer projects are also provided. In addition to years of use and professor feedback, the fifth edition of this text has been thoroughly checked to ensure the quality and accuracy of the mathematical content and the exercises. The blending of classical theory with modern applications is a hallmark feature of the text. The Fifth Edition builds on this strength with new examples and exercises, additional applications and increased cryptology coverage. The author devotes a great deal of attention to making this new edition up-to-date, incorporating new results and discoveries in number theory made in the past few years.

An Invitation to Applied Category Theory Oct 20 2023 Category theory reveals commonalities between structures of all sorts. This book shows its potential in science, engineering, and beyond.

A Random Walk Down Wall Street Sep 19 2023 C.1 MEMORIAL GIFT. 03-28-2008. $29.95.

Algorithmic Number Theory Dec 30 2021 An introduction to number theory for beginning graduate students with articles by the leading experts in the field.

Contractual Good Faith Feb 17 2021

Becoming Human Mar 13 2023 Winner of the William James Book Award “Magisterial...Makes an impressive argument that most distinctly human traits are established early in childhood and that the general chronology in which these traits appear can at least—and at last—be identified.” —Wall Street Journal “Theoretically daring and experimentally ingenious, Becoming Human squarely tackles the abiding question of what makes us human.” —Susan Gelman, University of Michigan Virtually all theories of how humans have become such a distinctive species focus on evolution. Becoming Human proposes a complementary theory of human

uniqueness, focused on development. Building on the seminal ideas of Vygotsky, it explains how those things that make us most human are constructed during the first years of a child's life. In this groundbreaking work, Michael Tomasello draws from three decades of experimental research with chimpanzees, bonobos, and children to propose a new framework for psychological growth between birth and seven years of age. He identifies eight pathways that differentiate humans from their primate relatives: social cognition, communication, cultural learning, cooperative thinking, collaboration, prosociality, social norms, and moral identity. In each of these, great apes possess rudimentary abilities, but the maturation of humans' evolved capacities for shared intentionality transform these abilities into uniquely human cognition and sociality.

Seven Modes of Uncertainty Sep 26 2021 Literature is uncertain. Literature is good for us. These two ideas are often taken for granted. But what is the relationship between literature's capacity to perplex and its ethical value? Seven Modes of Uncertainty contends that literary uncertainty is crucial to ethics because it pushes us beyond the limits of our experience.

Elementary Number Theory May 27 2024 "With almost a thousand imaginative exercises and problems, this book stimulates curiosity about numbers and their properties."

Classics of organization theory Apr 14 2023

First Principles: Building Perimeter Institute Nov 21 2023 In this second edition of First Principles: Building Perimeter Institute, Howard Burton tells the remarkable and unconventional story—with a bold and biting humour and surprising candour—of the founding of Perimeter Institute for Theoretical Physics in Waterloo, Canada. Howard was the Founding Director of Perimeter Institute and his experiences at developing the research and outreach mandates of PI are described in this thought-provoking book featuring a foreword by Nobel Laureate Roger Penrose. How was PI created from scratch, from first principles? What were the hurdles? What were the challenges? What was the ''Howard and Mike show'' all about and what did BlackBerrys and RIM have to do with PI? In vivid and compelling detail, Howard describes his remarkable odyssey of partnering with BlackBerry founder Mike Lazaridis to develop a pioneering new theoretical physics institute entirely from scratch.

Advanced Number Theory with Applications Nov 09 2022 Exploring one of the most dynamic areas of mathematics, Advanced Number Theory with Applications covers a wide range of algebraic, analytic, combinatorial, cryptographic, and geometric aspects of number theory. Written by a recognized leader in algebra and number theory, the book includes a page reference for every citing in the bibliography and mo

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Philosophy Mar 21 2021

Random Walk Guide To Investing Jan 31 2022 An introduction the the basics of investing presents ten rules designed to promote long-term financial success and security.

A First Course in Rings and Ideals Sep 07 2022

Analytic Number Theory, Approximation Theory, and Special Functions Aug 18 2023 This book, in honor of Hari M. Srivastava, discusses essential developments in mathematical research in a variety of problems. It contains thirty-five articles, written by eminent scientists from the international mathematical community, including both research and survey works. Subjects covered include analytic number theory, combinatorics, special sequences of numbers and polynomials, analytic inequalities and applications, approximation of functions and quadratures, orthogonality and special and complex functions. The mathematical results and open problems discussed in this book are presented in a simple and self-contained manner. The book contains an overview of old and new results, methods, and theories toward the solution of longstanding problems in a wide scientific field, as well as new results in rapidly progressing areas of research. The book will be useful for researchers and graduate students in the fields of mathematics, physics and other computational and applied sciences.

Number Theory Feb 12 2023 Undergraduate text uses combinatorial approach to accommodate both math majors and liberal arts students. Covers the basics of number theory,

offers an outstanding introduction to partitions, plus chapters on multiplicativity-divisibility, quadratic congruences, additivity, and more.
The Information Nov 28 2021 From the bestselling author of the acclaimed Chaos and Genius comes a thoughtful and provocative exploration of the big ideas of the modern era: Information, communication, and information theory. Acclaimed science writer James Gleick presents an eye-opening vision of how our relationship to information has transformed the very nature of human consciousness. A fascinating intellectual journey through the history of communication and information, from the language of Africa's talking drums to the invention of written alphabets; from the electronic transmission of code to the origins of information theory, into the new information age and the current deluge of news, tweets, images, and blogs. Along the way, Gleick profiles key innovators, including Charles Babbage, Ada Lovelace, Samuel Morse, and Claude Shannon, and reveals how our understanding of information is transforming not only how we look at the world, but how we live. A New York Times Notable Book A Los Angeles Times and Cleveland Plain Dealer Best Book of the Year Winner of the PEN/E. O. Wilson Literary Science Writing Award
Extraordinary Circumstances Dec 22 2023 A detailed history of the American Civil War's first campaign in Virginia in 1862. The first campaign in the Civil War in which Robert E. Lee led the Army of Northern Virginia, the Seven Days Battles were fought southeast of the Confederate capital of Richmond in the summer of 1862. Lee and his fellow officers, including "Stonewall" Jackson, James Longstreet, A. P. Hill, and D. H. Hill, pushed George B. McClellan's Army of the Potomac from the gates of Richmond to the James River, where the Union forces reached safety. Along the way, Lee lost several opportunities to harm McClellan. The Seven Days have been the subject of numerous historical treatments, but none more detailed and engaging than Brian K. Burton's retelling of the campaign that lifted Southern spirits, began Lee's ascent to fame, and almost prompted European recognition of the Confederacy. "A thoroughly researched and well-written volume that will surely be the starting point for those interested in this particular campaign." —Journal of American History "A welcome addition to scholarship that should be the standard work on its subject for some time to come." —Journal of Military History "Plenty of good maps . . . help the reader follow the course of the campaign. . . . Burton does not neglect the role of the common soldiers . . . [and]provides thorough and reasonable analyses of the commanders on both sides." —Georgia Historical Quarterly "A full and measured account marked by a clear narrative and an interesting strategy of alternating the testimony of generals with their grand plans and the foot soldiers who had to move, shoot, and communicate in the smokey underbrush." —The Virginia Magazine
Elementary Number Theory: Primes, Congruences, and Secrets Aug 06 2022 This is a book about prime numbers, congruences, secret messages, and elliptic curves that you can read cover to cover. It grew out of undergr- uate courses that the author taught at Harvard, UC San Diego, and the University of Washington. The systematic study of number theory was initiated around 300B. C. when Euclid proved that there are in?nitely many prime numbers, and also cleverly deduced the fundamental theorem of arithmetic, which asserts that every positive integer factors uniquely as a product of primes. Over a thousand years later (around 972A. D.) Arab mathematicians formulated the congruent number problem that asks for a way to decide whether or not a given positive integer n is the area of a right triangle, all three of whose sides are rational numbers. Then another thousand years later (in 1976), Di?e and Hellman introduced the ?rst ever public-key cryptosystem, which enabled two people to communicate secretely over a public communications channel with no predetermined secret; this invention and the ones that followed it revolutionized the world of digital communication. In the 1980s and 1990s, elliptic curves revolutionized number theory, providing striking new insights into the congruent number problem, primality testing, publ- key cryptography, attacks on public-key systems, and playing a central role in Andrew Wiles' resolution of Fermat's Last Theorem.
Organizational Design Jul 17 2023 A clear,

step-by-step approach to designing an organization in today's volatile business world.

Elementary Number Theory Apr 21 2021 Elementary Number Theory, Seventh Edition, is written for the one-semester undergraduate number theory course taken by math majors, secondary education majors, and computer science students. This contemporary text provides a simple account of classical number theory, set against a historical background that shows the subject's evolution from antiquity to recent research. Written in David Burton's engaging style, Elementary Number Theory reveals the attraction that has drawn leading mathematicians and amateurs alike to number theory over the course of history.

The Ambiguity of Play Dec 10 2022 Sutton-Smith focuses on play theories rooted in seven distinct "rhetorics"--The ancient discourses of fate, power, communal identity, and frivolity and the modern discourses of progress, the imaginary, and the self. In a sweeping analysis that moves from the question of play in child development to the implications of play for the Western work ethic, he explores the values, historical sources, and interests that have dictated the terms and forms of play put forth in each discourse's "objective" theory

Introductory Functional Analysis with Applications Jul 05 2022 KREYSZIG The Wiley Classics Library consists of selected books originally published by John Wiley & Sons that have become recognized classics in their respective fields. With these new unabridged and inexpensive editions, Wiley hopes to extend the life of these important works by making them available to future generations of mathematicians and scientists. Currently available in the Series: Emil Artin Geometnc Algebra R. W. Carter Simple Groups Of Lie Type Richard Courant Differential and Integrai Calculus. Volume I Richard Courant Differential and Integral Calculus. Volume II Richard Courant & D. Hilbert Methods of Mathematical Physics, Volume I Richard Courant & D. Hilbert Methods of Mathematical Physics. Volume II Harold M. S. Coxeter Introduction to Modern Geometry. Second Edition Charles W. Curtis, Irving Reiner Representation Theory of Finite Groups and Associative Algebras Nelson Dunford, Jacob T. Schwartz unear Operators. Part One. General Theory Nelson Dunford. Jacob T. Schwartz Linear Operators, Part Two. Spectral Theory—Self Adjant Operators in Hilbert Space Nelson Dunford, Jacob T. Schwartz Linear Operators. Part Three. Spectral Operators Peter Henrici Applied and Computational Complex Analysis. Volume I—Power Senes-lntegrauon-Contormal Mapping-Locatvon of Zeros Peter Hilton, Yet-Chiang Wu A Course in Modern Algebra Harry Hochstadt Integral Equations Erwin Kreyszig Introductory Functional Analysis with Applications P. M. Prenter Splines and Variational Methods C. L. Siegel Topics in Complex Function Theory. Volume I —Elliptic Functions and Uniformizatton Theory C. L. Siegel Topics in Complex Function Theory. Volume II —Automorphic and Abelian Integrals C. L. Siegel Topics In Complex Function Theory. Volume III —Abelian Functions & Modular Functions of Several Variables J. J. Stoker Differential Geometry

Friendly Introduction to Number Theory, a (Classic Version) Jun 23 2021 For one-semester undergraduate courses in Elementary Number Theory This title is part of the Pearson Modern Classics series. Pearson Modern Classics are acclaimed titles at a value price. Please visit www.pearsonhighered.com/math-classics-series for a complete list of titles. A Friendly Introduction to Number Theory, 4th Edition is designed to introduce students to the overall themes and methodology of mathematics through the detailed study of one particular facet-number theory. Starting with nothing more than basic high school algebra, students are gradually led to the point of actively performing mathematical research while getting a glimpse of current mathematical frontiers. The writing is appropriate for the undergraduate audience and includes many numerical examples, which are analyzed for patterns and used to make conjectures. Emphasis is on the methods used for proving theorems rather than on specific results.

History of the Theory of Numbers; Volume 2 Jan 19 2021 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the "public domain in the United States of America, and possibly other

nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Abstract Algebra Jan 11 2023 Textbook for use by undergraduate mathematics majors.

An Introduction to Social Psychology May 15 2023 "The fifth edition of this highly successful text, An Introduction to Social Psychology has been fully revised and updated. Accessibility for students has been improved, including better illustrations, greater use of colour and a more approachable format, as well as a wealth of online resources. Combining its traditional academic rigour with a contemporary level of cohesion, accessibility, pedagogy and instructor support, the fifth edition of An Introduction to Social Psychology provides the definitive treatment of social psychology"--

A First Course In Theory Of Numbers Oct 28 2021 Contents: Number System; Congruencies And Its Basic Properties; Algebraic Congruences And Primitive Roots; Arithmetic Functions; Farey Sequence, Continued Fraction, Pell S Equations; Quadratic Residues, Levender S Symbols, Jacobi S Symbols; Homogeneous Quadratic Diophantine Equation; Some Number Theoretic Problems Related To Mathematics Olympiads; Answers; Etc.

Where Mathematics Come From How The Embodied Mind Brings Mathematics Into Being Jul 25 2021 A study of the cognitive science of mathematical ideas.

Elementary Number Theory Mar 25 2024 An undergraduate-level introduction to number theory, with the emphasis on fully explained proofs and examples. Exercises, together with their solutions are integrated into the text, and the first few chapters assume only basic school algebra. Elementary ideas about groups and rings are then used to study groups of units, quadratic residues and arithmetic functions with applications to enumeration and cryptography. The final part, suitable for third-year students, uses ideas from algebra, analysis, calculus and geometry to study Dirichlet series and sums of squares. In particular, the last chapter gives a concise account of Fermat's Last Theorem, from its origin in the ancient Babylonian and Greek study of Pythagorean triples to its recent proof by Andrew Wiles.

Behavioral Finance Jun 16 2023 An in-depth look into the various aspects of behavioral finance Behavioral finance applies systematic analysis to ideas that have long floated around the world of trading and investing. Yet it is important to realize that we are still at a very early stage of research into this discipline and have much to learn. That is why Edwin Burton has written Behavioral Finance: Understanding the Social, Cognitive, and Economic Debates. Engaging and informative, this timely guide contains valuable insights into various issues surrounding behavioral finance. Topics addressed include noise trader theory and models, research into psychological behavior pioneered by Daniel Kahneman and Amos Tversky, and serial correlation patterns in stock price data. Along the way, Burton shares his own views on behavioral finance in order to shed some much-needed light on the subject. Discusses the Efficient Market Hypothesis (EMH) and its history, and presents the background of the emergence of behavioral finance Examines Shleifer's model of noise trading and explores other literature on the topic of noise trading Covers issues associated with anomalies and details serial correlation from the perspective of experts such as DeBondt and Thaler A companion Website contains supplementary material that allows you to learn in a hands-on fashion long after closing the book In order to achieve better investment results, we must first overcome our behavioral finance biases. This book will put you in a better position to do so.

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