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- Proofs and Fundamentals-Ethan D. Bloch 2013-12-01 The aim of this book is to help students write mathematics better. Throughout it are large exercise sets well-integrated with the text and varying appropriately from easy to hard. Basic issues are treated, and attention is given to small issues like not placing a mathematical symbol directly after a punctuation mark. And it provides many examples of what students should think and what they should write and how these two are often not the same.
- The Real Numbers and Real Analysis-Ethan D. Bloch 2011-05-27 This text is a rigorous, detailed introduction to real analysis that presents the fundamentals with clear exposition and carefully written definitions, theorems, and proofs. It is organized in a distinctive, flexible way that would make it equally appropriate to undergraduate mathematics majors who want to continue in mathematics, and to future mathematics teachers who want to understand the theory behind calculus. The Real Numbers and Real Analysis will serve as an excellent one-semester text for undergraduates majoring in mathematics, and for students in mathematics education who want a thorough understanding of the theory behind the real number system and calculus.
- Introduction to Mathematical Structures and Proofs-Larry J. Gerstein 1996-04-04 This acclaimed book aids the transition from lower-division calculus to upper-division courses in linear and abstract algebra, real and complex analysis, number theory, topology and more, with examples, images, exercises and a solution manual for instructors.
- A First Course in Geometric Topology and Differential Geometry-Ethan D. Bloch 1997 The uniqueness of this text in combining geometric topology and differential geometry lies in its unifying thread: the notion of a surface. With numerous illustrations, exercises and examples, the student comes to understand the relationship of the modern abstract approach to geometric intuition. The text is kept at a concrete level, avoiding unnecessary abstractions, yet never sacrificing mathematical rigor. The book includes topics not usually found in a single book at this level.
- Crossing the River with Dogs-Ken Johnson 2003-11-18 Students who often complain when faced with challenging word problems will be engaged as they acquire essential problem solving skills that are applicable beyond the math classroom. The authors of Crossing the River with Dogs: Problem Solving for College Students: - Use the popular approach of explaining strategies through dialogs from fictitious students - Present all the classic and numerous non-traditional problem solving strategies (from drawing diagrams to matrix logic, and finite differences) - Provide a text suitable for students in quantitative reasoning, developmental mathematics, mathematics education, and all courses in between - Challenge students with interesting, yet concise problem sets that include classic problems at the end of each chapter With Crossing the River with Dogs, students will enjoy reading their text and will take with them skills they will use for a lifetime.
- Real Analysis-Brian S. Thomson 2008 This is the second edition of a graduate level real analysis textbook formerly published by Prentice Hall (Pearson) in 1997. This edition contains both volumes. Volumes one and two can also be purchased separately in smaller, more convenient sizes.
- An Introduction to Mathematical Reasoning-Peter J. Eccles 2013-06-26 This book eases students into the rigors of university mathematics. The emphasis is on understanding and constructing proofs and writing clear mathematics. The author achieves this by exploring set theory, combinatorics, and number theory, topics that include many fundamental ideas and may not be a part of a young mathematician's toolkit. This material illustrates how familiar ideas can be formulated rigorously, provides examples demonstrating a wide range of basic methods of proof, and includes some of the all-time-great classic proofs. The book presents mathematics as a continually developing subject. Material meeting the needs of readers from a wide range of backgrounds is included. The over 250 problems include questions to interest and challenge the most able student but also plenty of routine exercises to help familiarize the reader with the basic ideas.
- Quantum Computing-Eleanor Rieffel 2014-05-09 "The text covers the basic building blocks of quantum information processing, quantum bits and quantum gates, showing their relationship to the key quantum concepts of quantum measurement, quantum state transformation, and entanglement between quantum subsystems; it treats quantum algorithms, discussing notions of complexity and describing a number of simple algorithms as well as the most significant algorithms to date; and it explores entanglement and robust quantum computation, investigating such topics as quantifying entanglement, decoherence, quantum error correction, and fault tolerance."--Back cover.
- The WEIRD People in the World-Joseph Henrich 2020-09-08 A bold, epic account of how the co-evolution of psychology and culture created the peculiar Western mind that has profoundly shaped the modern world. Perhaps you are WEIRD: raised in a society that is Western, Educated, Industrialized, Rich, and Democratic. If so, you're rather psychologically peculiar. Unlike much of the world today, and most people who have ever lived, WEIRD people are highly individualistic, self-obsessed, control-oriented, nonconformist, and analytical. They focus on themselves—their attributes, accomplishments, and aspirations—over their relationships and social roles. How did WEIRD populations become so psychologically distinct? What role did these psychological differences play in the industrial revolution and the global expansion of Europe during the last few centuries? In The WEIRD People in the World, Joseph Henrich draws on cutting-edge research in anthropology, psychology, economics, and evolutionary biology to explore these questions and more. He illuminates the origins and evolution of family structures, marriage, and religion, and the profound impact these cultural transformations had on human psychology. Mapping these shifts through ancient history and late antiquity, Henrich reveals that the most fundamental institutions of kinship and marriage changed dramatically under pressure from the Roman Catholic Church. It was these changes that gave rise to the WEIRD psychology that would coevolve with impersonal markets, occupational specialization, and free competition—laying the foundation for the modern world. Provocative and engaging in both its broad scope and its surprising details, The WEIRD People in the World explores how culture, institutions, and psychology shape one another, and explains what this means for both our most personal sense of who we are as individuals and also the large-scale social, political, and economic forces that drive human history. Include black-and-white illustrations.
- An Introduction to Quantum Computing-Phillip Kaye 2007 The authors provide an introduction to quantum computing. Aimed at advanced undergraduate and beginning graduate students in these disciplines, this text is illustrated with diagrams and exercises.
- Geospatial Concepts-Nicolas Malloy 2019-06-02 The concepts and tutorials presented in this book are for readers with little to no experience using geographic information systems (GIS) software. This book is intended for use in an introductory college-level course. It contains seven chapters, each representing approximately two-weeks of work for a three-credit 16-week semester course. Each chapter starts with text related to fundamental concepts related to geospatial science and its sub-disciplines. The chapters also include one or more tutorials designed to reinforce the concepts learned. Tutorials may take between one to six hours to complete, depending on their complexity. When possible, the authors provide an estimated time to complete tutorials. Additional references, such as video content and external websites, may also be mentioned throughout the text. Chapter 1 explains how one creates, represents, manages, and displays geospatial data. A phrase familiar to computer science says, "Garbage in, garbage out." It means that the results of one's work depend upon the quality of data that goes into it. This phrase also applies to geospatial science. Understanding geospatial data will ensure that a project, analysis, or procedure will result in producing quality work. This Chapter covers the concepts, structure, data types, file types, and management of geospatial

data. Maps are a medium for communication with a unique set of methods and techniques. Understanding how maps communicate will allow one to view maps in a new light and with a critical eye. One begins by learning the essential map elements and the visual variables of graphic communication. Chapter 2 presents the fundamental principles of cartographic design and communication. Chapter 3 presents the discipline at the root of geospatial science, geodesy. Geodesy is a branch of applied mathematics. It is the science of measuring and representing the size and shape of Earth, the exact position of points on the planet, and the study of Earth's gravitational and magnetic fields as they change over time. Determining a position on earth in a way that is meaningful to others is a difficult challenge. In part, the difficulty is due to the variations in map projections and datums used across the world, which can change longitude and latitude coordinates in different ways. It may seem like a small detail, yet boundary definitions and positional information can have significant legal, political, and military consequences. Chapter 4 presents how distance and location are defined and communicated using map scale and spatial reference systems. Chapter 5 presents a series of methods and equipment for mapping data in the field. This chapter differs from others due to the hands-on nature of field collection that is difficult to translate into a digital textbook. The activities included in this chapter have far less focus on software and incorporate some outdoor activities that readers will have to perform. Today, anyone with an internet connection and a web browser can view images from aircraft and space satellites. With imagery so commonplace and accessible, many might take it for granted. However, there are still new frontiers emerging in the collection, application, and processing of images. The scientific and educational potential of civilian-operated unmanned aircraft systems (UAS) is just one. Chapter 6 presents the phenomenon, concepts, equipment, and methods behind the science of Remote Sensing. Too often, people conduct a geospatial analysis without consideration for uncertainty and error, map projections, and datums. More often, there is little regard for cartographic convention and communication design goals. A geospatial analysis should consider the properties of geospatial data before applying GIS software tools. Chapter 7 introduces the first steps in learning how to conduct a geospatial analysis. The topics presented within should help to prepare readers for more sophisticated uses of GIS.

Mathematical Modeling-Mark M. Meerschaert 2007-07-02 Mathematical Modeling, Third Edition is a general introduction to an increasingly crucial topic for today's mathematicians. Unlike textbooks focused on one kind of mathematical model, this book covers the broad spectrum of modeling problems, from optimization to dynamical systems to stochastic processes. Mathematical modeling is the link between mathematics and the rest of the world. Meerschaert shows how to refine a question, phrasing it in precise mathematical terms. Then he encourages students to reverse the process, translating the mathematical solution back into a comprehensible, useful answer to the original question. This textbook mirrors the process professionals must follow in solving complex problems. Each chapter in this book is followed by a set of challenging exercises. These exercises require significant effort on the part of the student, as well as a certain amount of creativity. Meerschaert did not invent the problems in this book--they are real problems, not designed to illustrate the use of any particular mathematical technique. Meerschaert's emphasis on principles and general techniques offers students the mathematical background they need to model problems in a wide range of disciplines. Increased support for instructors, including MATLAB material New sections on time series analysis and diffusion models Additional problems with international focus such as whale and dolphin populations, plus updated optimization problems

Project Finance in Theory and Practice-Stefano Gatti 2007-11-07 Project finance is a fast-growing area of capital investment for major infrastructure and other large projects. Financing such projects as EuroDisney, airports, highways, tunnels, schools, hospitals, and other large projects presents a complex and interesting challenge that the specialty of project finance takes on wholeheartedly, combining financial engineering with legal and contractual expertise to develop various financing options. In this book, Stefano Gatti of Bocconi University describes the theory that underpins this cutting-edge industry, and then provides illustrations and examples from actual practice to illustrate that theory. At key points in the book, Gatti brings in other project finance experts who share their specialized knowledge on the legal issues and the role of advisors in project finance deals. Foreword by William Megginson, Professor and Rainbolt Chair in Finance, Price College of Business, The University of Oklahoma Comprehensive coverage of theory and practice of project finance as it is practiced today in Europe and North America

Numbers, Groups and Codes-J. F. Humphreys 2004-05-13 This textbook is an introduction to algebra via examples. The book moves from properties of integers, through other examples, to the beginnings of group theory. Applications to public key codes and to error correcting codes are emphasised. These applications, together with sections on logic and finite state machines, make the text suitable for students of computer science as well as mathematics students. Attention is paid to historical development of the mathematical ideas. This second edition contains new material on mathematical reasoning skills and a new chapter on polynomials has been added. The book was developed from first-level courses taught in the UK and USA. These courses proved successful in developing not only a theoretical understanding but also algorithmic skills. This book can be used at a wide range of levels: it is suitable for first- or second-level university students, and could be used as enrichment material for upper-level school students.

Advanced Nutrition and Dietetics in Obesity-Catherine Hankey 2018-02-05 This addition to the British Dietetic Association Advanced Nutrition and Dietetics book series is written for clinicians and researchers who work with any aspect of obesity and its comorbid conditions. Featuring contributions from leading researchers and practitioners from around the globe Advanced Nutrition and Dietetics in Obesity offers a uniquely international perspective on what has become a worldwide public health crisis. Chapters cover a full range of new ideas and research on the underlying drivers of obesity in populations including discussions on the genetic and clinical aspects of obesity, along with expert recommendations on how to effectively manage and prevent this chronic and persistent disease. Providing a comprehensive overview of the key literature in this field, Advanced Nutrition and Dietetics in Obesity is an invaluable resource for all those whose work should or does embrace any aspect of obesity.

The Integration of the Humanities and Arts with Sciences, Engineering, and Medicine in Higher Education-National Academies of Sciences, Engineering, and Medicine 2018-07-21 In the United States, broad study in an array of different disciplines "arts, humanities, science, mathematics, engineering" as well as an in-depth study within a special area of interest, have been defining characteristics of a higher education. But over time, in-depth study in a major discipline has come to dominate the curricula at many institutions. This evolution of the curriculum has been driven, in part, by increasing specialization in the academic disciplines. There is little doubt that disciplinary specialization has helped produce many of the achievement of the past century. Researchers in all academic disciplines have been able to delve more deeply into their areas of expertise, grappling with ever more specialized and fundamental problems. Yet today, many leaders, scholars, parents, and students are asking whether higher education has moved too far from its integrative tradition towards an approach heavily rooted in disciplinary "silos". These "silos" represent what many see as an artificial separation of academic disciplines. This study reflects a growing concern that the approach to higher education that favors disciplinary specialization is poorly calibrated to the challenges and opportunities of our time. The Integration of the Humanities and Arts with Sciences, Engineering, and Medicine in Higher Education examines the evidence behind the assertion that educational programs that mutually integrate learning experiences in the humanities and arts with science, technology, engineering, mathematics, and medicine (STEMM) lead to improved educational and career outcomes for undergraduate and graduate students. It explores evidence regarding the value of integrating more STEMM curricula and labs into the academic programs of students majoring in the humanities and arts and evidence regarding the value of integrating curricula and experiences in the arts and humanities into college and university STEMM education programs.

Quantum Computing-National Academies of Sciences, Engineering, and Medicine 2019-04-27 Quantum mechanics, the subfield of physics that describes the behavior of very small (quantum) particles, provides the basis for a new paradigm of computing. First proposed in the 1980s as a way to improve computational modeling of quantum systems, the field of quantum computing has recently garnered significant attention due to progress in building small-scale devices. However, significant technical advances will be required before a large-scale, practical quantum computer can be achieved. Quantum Computing: Progress and Prospects provides an introduction to the field, including the unique characteristics and constraints of the technology, and assesses the feasibility and implications of creating a functional quantum computer capable of addressing real-world problems. This report considers hardware and software requirements, quantum algorithms, drivers of advances in quantum computing and quantum devices, benchmarks associated with relevant use cases, the time and resources required, and how to assess the probability of success.

The Biological Mind-Alan Jasanoff 2018-03-13 A pioneering neuroscientist argues that we are more than our brains To many, the brain is the seat of personal identity and autonomy. But the way we talk about the brain is often rooted more in mystical conceptions of the soul than in scientific fact. This blinds us to the physical realities of mental function. We ignore bodily influences on our psychology, from chemicals in the blood to bacteria in the gut, and overlook the ways that the environment affects our behavior, via factors varying from subconscious sights and sounds to the weather. As a result, we alternately overestimate our capacity for free will or equate brains to inorganic machines like computers. But a brain is neither a soul nor an electrical network: it is a bodily organ, and it cannot be separated from its surroundings. Our selves aren't just inside our heads--they're spread throughout our bodies and beyond. Only once we come to terms with this can we grasp the true nature of our humanity.

Beyond Politics-Michael P. Vandenbergh 2017-12-21 Private sector action provides one of the most promising opportunities to reduce the risks of climate change, buying time while governments move slowly or even oppose climate mitigation. Starting with the insight that much of the resistance to climate mitigation is grounded in concern about the role of government, this books draws on law, policy, social science, and climate science to demonstrate how private

initiatives are already bypassing government inaction in the US and around the globe. It makes a persuasive case that private governance can reduce global carbon emissions by a billion tons per year over the next decade. Combining an examination of the growth of private climate initiatives over the last decade, a theory of why private actors are motivated to reduce emissions, and a review of viable next steps, this book speaks to scholars, business and advocacy group managers, philanthropists, policymakers, and anyone interested in climate change.

Hacker, Hoaxer, Whistleblower, Spy-Gabriella Coleman 2014-11-04 Here is the ultimate book on the worldwide movement of hackers, pranksters, and activists that operates under the non-name Anonymous, by the writer the Huffington Post says “knows all of Anonymous’ deepest, darkest secrets.” Half a dozen years ago, anthropologist Gabriella Coleman set out to study the rise of this global phenomenon just as some of its members were turning to political protest and dangerous disruption (before Anonymous shot to fame as a key player in the battles over WikiLeaks, the Arab Spring, and Occupy Wall Street). She ended up becoming so closely connected to Anonymous that the tricky story of her inside-outside status as Anon confidante, interpreter, and erstwhile mouthpiece forms one of the themes of this witty and entirely engrossing book. The narrative brims with details unearthed from within a notoriously mysterious subculture, whose semi-legendary tricksters—such as Topiary, tflow, Anachaos, and Sabu—emerge as complex, diverse, politically and culturally sophisticated people. Propelled by years of chats and encounters with a multitude of hackers, including imprisoned activist Jeremy Hammond and the double agent who helped put him away, Hector Monsegur, Hacker, Hoaxer, Whistleblower, Spy is filled with insights into the meaning of digital activism and little understood facets of culture in the Internet age, including the history of “trolling,” the ethics and metaphysics of hacking, and the origins and manifold meanings of “the lulz.”

Mindhacker-Ron Hale-Evans 2011-08-10 Compelling tips and tricks to improve your mental skills Don't you wish you were just a little smarter? Ron and MartyHale-Evans can help with a vast array of witty, practical techniques that tune your brain to peak performance. Founded in current research, Mindhacker features 60 tips, tricks, and games to develop your mental potential. This accessible compilation helps improve memory, accelerate learning, manage time, spark creativity, hone math and logic skills, communicate better, think more clearly, and keep your mind strong and flexible.

Limits-Alan F. Beardon 2012-12-06 Intended as an undergraduate text on real analysis, this book includes all the standard material such as sequences, infinite series, continuity, differentiation, and integration, together with worked examples and exercises. By unifying and simplifying all the various notions of limit, the author has successfully presented a novel approach to the subject matter, which has not previously appeared in book form. The author defines the term limit once only, and all of the subsequent limiting processes are seen to be special cases of this one definition. Accordingly, the subject matter attains a unity and coherence that is not to be found in the traditional approach. Students will be able to fully appreciate and understand the common source of the topics they are studying while also realising that they are “variations on a theme”, rather than essentially different topics, and therefore, will gain a better understanding of the subject.

Cognitive Enhancement-Shira Knafo 2014-12-20 Cognitive Enhancement: Pharmacologic, Environmental and Genetic Factors addresses the gap that exists in research on the topic, gathering multidisciplinary knowledge and tools that help the reader understand the basics of cognitive enhancement. It also provides assistance in designing procedures and pharmacological approaches to further the use of novel cognitive enhancers, a field that offers potential benefit to a variety of populations, including those with neurologic and psychiatric disorders, mild aging-related cognitive impairment, and those who want to improve intellectual performance. The text builds on our knowledge of the molecular/cellular basis of cognitive function, offering the technological developments that may soon enhance cognition. Separate sections cover enhancement drugs, environmental conditions, and genetic factors in terms of both human and animal studies, including both healthy/young and aging/diseased individuals. Provides a multidisciplinary knowledge, enabling a further understanding of cognitive enhancement Offers coverage of the pharmacologic, environmental, and genetic factors relevant to the topic Discusses cognitive enhancement from the perspective of both healthy and diseased or aging populations Topics are discussed in terms of both human and animal studies

Set Phasers to Teach!-Stefan Rabitsch 2018-07-10 For 50 years, Star Trek has been an inspiration to its fans around the world, helping them to dream of a better future. This inspiration has entered our culture and helped to shape much of the technology of the early 21st Century. The contributors to this volume are researchers and teachers in a wide variety of disciplines; from Astrophysics to Ethnology, from English and History to Medicine and Video Games, and from American Studies to the study of Collective Computing Systems. What the authors have in common is that some version of Star Trek has inspired them, not only in their dreams of what may be, but in the ways in which they work - and teach others to work - here in the real world. Introduced with references to Star Trek films and television shows, and illustrated with original cartoons, each of the 15 chapters included in this volume provides insights into research and teaching in this range of academic fields.

Elementary Set Theory, Part I/II-K.T. Leung 1992-07-01 This book provides students of mathematics with the minimum amount of knowledge in logic and set theory needed for a profitable continuation of their studies. There is a chapter on statement calculus, followed by eight chapters on set theory.

Entertainment Science-Thorsten Hennig-Thurau 2018-08-01 The entertainment industry has long been dominated by legendary screenwriter William Goldman’s “Nobody-Knows-Anything” mantra, which argues that success is the result of managerial intuition and instinct. This book builds the case that combining such intuition with data analytics and rigorous scholarly knowledge provides a source of sustainable competitive advantage - the same recipe for success that is behind the rise of firms such as Netflix and Spotify, but has also fueled Disney’s recent success. Unlocking a large repertoire of scientific studies by business scholars and entertainment economists, the authors identify essential factors, mechanisms, and methods that help a new entertainment product succeed. The book thus offers a timely alternative to “Nobody-Knows” decision-making in the digital era: while coupling a good idea with smart data analytics and entertainment theory cannot guarantee a hit, it systematically and substantially increases the probability of success in the entertainment industry. Entertainment Science is poised to inspire fresh new thinking among managers, students of entertainment, and scholars alike. Thorsten Hennig-Thurau and Mark B. Houston - two of our finest scholars in the area of entertainment marketing - have produced a definitive research-based compendium that cuts across various branches of the arts to explain the phenomena that provide consumption experiences to capture the hearts and minds of audiences. Morris B. Holbrook, W. T. Dillard Professor Emeritus of Marketing, Columbia University Entertainment Science is a must-read for everyone working in the entertainment industry today, where the impact of digital and the use of big data can’t be ignored anymore. Hennig-Thurau and Houston are the scientific frontrunners of knowledge that the industry urgently needs. Michael Kölmel, media entrepreneur and Honorary Professor of Media Economics at University of Leipzig Entertainment Science’s winning combination of creativity, theory, and data analytics offers managers in the creative industries and beyond a novel, compelling, and comprehensive approach to support their decision-making. This ground-breaking book marks the dawn of a new Golden Age of fruitful conversation between entertainment scholars, managers, and artists. Allègre Hadida, Associate Professor in Strategy, University of Cambridge

Eloquent Ruby-Russ Olsen 2011-02-07 It’s easy to write correct Ruby code, but to gain the fluency needed to write great Ruby code, you must go beyond syntax and absorb the “Ruby way” of thinking and problem solving. In Eloquent Ruby, Russ Olsen helps you write Ruby like true Rubyists do—so you can leverage its immense, surprising power. Olsen draws on years of experience internalizing the Ruby culture and teaching Ruby to other programmers. He guides you to the “Ah Ha!” moments when it suddenly becomes clear why Ruby works the way it does, and how you can take advantage of this language’s elegance and expressiveness. Eloquent Ruby starts small, answering tactical questions focused on a single statement, method, test, or bug. You’ll learn how to write code that actually looks like Ruby (not Java or C#); why Ruby has so many control structures; how to use strings, expressions, and symbols; and what dynamic typing is really good for. Next, the book addresses bigger questions related to building methods and classes. You’ll discover why Ruby classes contain so many tiny methods, when to use operator overloading, and when to avoid it. Olsen explains how to write Ruby code that writes its own code—and why you’ll want to. He concludes with powerful project-level features and techniques ranging from gems to Domain Specific Languages. A part of the renowned Addison-Wesley Professional Ruby Series, Eloquent Ruby will help you “put on your Ruby-colored glasses” and get results that make you a true believer.

Introduction to Mathematical Structures and Proofs-Larry J. Gerstein 2012-06-05 As a student moves from basic calculus courses into upper-division courses in linear and abstract algebra, real and complex analysis, number theory, topology, and so on, a “bridge” course can help ensure a smooth transition. Introduction to Mathematical Structures and Proofs is a textbook intended for such a course, or for self-study. This book introduces an array of fundamental mathematical structures. It also explores the delicate balance of intuition and rigor—and the flexible thinking—required to prove a nontrivial result. In short, this book seeks to enhance the mathematical maturity of the reader. The new material in this second edition includes a section on graph theory, several new sections on number theory (including primitive roots, with an application to card-shuffling), and a brief introduction to the complex numbers (including a section on the arithmetic of the Gaussian integers). Solutions for even numbered exercises are available on springer.com for instructors adopting the text for a course.

Dietary Supplements-Johanna T. Dwyer 2018-06-26 This book is a printed edition of the Special Issue “Dietary Supplements” that was published in *Nutrients*

A Republic of Books-Vincent McCaffrey 2018-04 This is my chance, then, to cast myself in the hero’s role. I’ve been a humble author and bookseller for all these years. (Allow me my hyperbole—at least I’m much humbled.) I don’t run

into tall buildings to save women and children while other's flee. (My knees have never been so strong, but it bears asking, do the women need the saving anymore?) My eyes are not good enough to fly jet planes or hit a fast ball. I sell old books and the few that are new that are worth the time, and write novels I cannot sell. And though the writing has been much ignored, it is a witness to what I do and what I've done—that is, for sixty-eight years I have done pretty much what suited me. And here, at last, is a chance to do what is arguably better if not best. The argument is not settled. That I have waited until now, when I have so little left to lose, may be some mitigation of your judgment of all this, I understand. Or that the overwhelming risk of failure at this point makes any effort too romantically futile (and possibly planned that way). That I should have done more to prevent what has finally come to pass might cast me into the lower ranks of Dante's hell, but at least I won't be letting a good collapse of Western Civilization go waste. There is a story here to be written, and if it transpires that there is no one left to read it, so be it. That is at least consistent with all else that I do. (The whine you hear is not self pity, but the wind in the gears.) I sally forth. My armor is the truth. I have a worthy truck for my steed. My companion is well, we'll work that out.

Birds and Frogs-Freeman J Dyson 2015-03-25 This book is a sequel to the volume of selected papers of Dyson up to 1990 that was published by the American Mathematical Society in 1996. The present edition comprises a collection of the most interesting writings of Freeman Dyson, all personally selected by the author, from the period 1990–2014. The five sections start off with an Introduction, followed by Talks about Science, Memoirs, Politics and History, and some Technical Papers. The most noteworthy is a lecture entitled Birds and Frogs to the American Mathematical Society that describes two kinds of mathematicians with examples from real life. Other invaluable contributions include an important tribute to C. N. Yang written for his retirement banquet at Stony Brook University, as well as a historical account of the Operational Research at RAF Bomber Command in World War II provocatively titled A Failure of Intelligence. The final section carries the open-ended question of whether any conceivable experiment could detect single gravitons to provide direct evidence of the quantization of gravity — Is a Graviton Detectable? Various possible graviton-detectors are examined. This invaluable compilation contains unpublished lectures, and surveys many topics in science, mathematics, history and politics, in which Freeman Dyson has been so active and well respected around the world.

Authors of Pictures, Draughtsmen of Words-Ruth Shagoury Hubbard 1989 With the view that children are not little adults, that they have their own valid interpretations of the world, Hubbard explores the symbol systems that children create and the ways these systems are integrated into their developing literacy. While previous examinations of children's drawing have been written from the perspective of the adult researcher, Hubbard uses children as the informants in her ethnography, looks at their intentions, and considers the contexts in which their writing and drawing activities occur. Her conclusions about how children find and link visual and verbal solutions to problems will help teachers create classrooms in which total communication is emphasized so that children find--and make--meaning in their worlds.

Introduction to Mathematical Structures-Sтивен Galovich 1989-01-01

An Open Door to Number Theory-Duff Campbell 2018-05-03 A well-written, inviting textbook designed for a one-semester, junior-level course in elementary number theory. The intended audience will have had exposure to proof writing, but not necessarily to abstract algebra. That audience will be well prepared by this text for a second-semester course focusing on algebraic number theory. The approach throughout is geometric and intuitive; there are over 400 carefully designed exercises, which include a balance of calculations, conjectures, and proofs. There are also nine substantial student projects on topics not usually covered in a first-semester course, including Bernoulli numbers and polynomials, geometric approaches to number theory, the p -adic numbers, quadratic extensions of the integers, and arithmetic generating functions.

On Becoming a Leadership Coach-C. Wahl 2017-06-30 This book focuses on coaching leaders in the context of the organizational systems within which they lead, drawing on the curriculum of the Georgetown University Leadership Coaching Certificate Program, one of the premier coach training programs in the world and the only one with this particular focus.

Handbook of Academic Integrity-Tracey Ann Bretag 2017-03-12 The book brings together diverse views from around the world and provides a comprehensive overview of the subject, beginning with different definitions of academic integrity through how to create the ethical academy. At the same time, the Handbook does not shy away from some of the vigorous debates in the field such as the causes of academic integrity breaches. There has been an explosion of interest in academic integrity in the last 10-20 years. New technologies that have made it easier than ever for students to 'cut and paste', coupled with global media scandals of high profile researchers behaving badly, have resulted in the perception that plagiarism is 'on the rise'. This, in combination with the massification and commercialisation of higher education, has resulted in a burgeoning interest in the importance of academic integrity, how to safeguard it, and how to address breaches appropriately. What may have seemed like a relatively easy topic to address – students copying sources without attribution – has in fact, turned out to be a very complex, interdisciplinary field of research requiring contributions from linguists, psychologists, social scientists, anthropologists, teaching and learning specialists, mathematicians, accountants, medical doctors, lawyers and philosophers, to name just a few. Despite or perhaps because of this broad interest and input, there has been no single authoritative reference work which brings together the vast, growing, interdisciplinary and at times contradictory body of literature. For both established researchers/practitioners and those new to the field, this Handbook provides a one-stop-shop as well as a launching pad for new explorations and discussions.

The Architecture of Ruins-Jonathan Hill 2019-03-25 The Architecture of Ruins: Designs on the Past, Present and Future identifies an alternative and significant history of architecture from the sixteenth century to the twenty-first century, in which a building is designed, occupied and imagined as a ruin. This design practice conceives a monument and a ruin as creative, interdependent and simultaneous themes within a single building dialectic, addressing temporal and environmental questions in poetic, psychological and practical terms, and stimulating questions of personal and national identity, nature and culture, weather and climate, permanence and impermanence and life and death. Conceiving a building as a dialogue between a monument and a ruin intensifies the already blurred relations between the unfinished and the ruined and envisages the past, the present and the future in a single architecture. Structured around a collection of biographies, this book conceives a monument and a ruin as metaphors for a life and means to negotiate between a self and a society. Emphasising the interconnections between designers and the particular ways in which later architects learned from earlier ones, the chapters investigate an evolving, interdisciplinary design practice to show the relevance of historical understanding to design. Like a history, a design is a reinterpretation of the past that is meaningful to the present. Equally, a design is equivalent to a fiction, convincing users to suspend disbelief. We expect a history or a novel to be written in words, but they can also be delineated in drawing, cast in concrete or seeded in soil. The architect is a 'physical novelist' as well as a 'physical historian'. Like building sites, ruins are full of potential. In revealing not only what is lost, but also what is incomplete, a ruin suggests the future as well as the past. As a stimulus to the imagination, a ruin's incomplete and broken forms expand architecture's allegorical and metaphorical capacity, indicating that a building can remain unfinished, literally and in the imagination, focusing attention on the creativity of users as well as architects. Emphasising the symbiotic relations between nature and culture, a building designed, occupied and imagined as a ruin acknowledges the coproduction of multiple authors, whether human, non-human or atmospheric, and is an appropriate model for architecture in an era of increasing climate change.

Biodiversity-Bilge Sener 2012-12-06 Proceedings of the 3rd IUPAC International Conference on Biodiversity (ICOB-3), November 3-8, 2001, Antalya, Turkey. This book discusses the value of bioresources and the need for their conservation in terms of the biomolecular chemistry of naturally occurring molecular systems. The development of pharmaceutical, agricultural and industrial products from bioresources can be used to promote incentives for conservation by providing an economic return to sustainable use of those sources. The 54 chapters inform readers on the search for insight into the species and documents how much of life remains to be scientifically identified. They also explore identification strategies and methods along with the implications for protecting biodiversity. In summary, biomolecular aspects of biodiversity and innovative utilization of bioresources are discussed from very diverse points of view ranging from their botanical, zoological, taxonomic and genomic expressions to their biomolecular, structural, mechanistic and functional aspects.

Elementary Real Analysis, Second Edition-Brian S. Thomson 2008-04-07 This is the second edition of the text Elementary Real Analysis originally published by Prentice Hall (Pearson) in 2001.

Chapter 1. Real NumbersChapter 2. SequencesChapter 3. Infinite sumsChapter 4. Sets of real numbersChapter 5. Continuous functionsChapter 6. More on continuous functions and setsChapter 7. Differentiation Chapter 8. The IntegralChapter 9. Sequences and series of functionsChapter 10. Power seriesChapter 11. Euclidean Space \mathbb{R}^n Chapter 12. Differentiation on \mathbb{R}^n Chapter 13. Metric Spaces

Quantum Computation and Quantum Information-Michael A. Nielsen 2010-12-09 One of the most cited books in physics of all time, Quantum Computation and Quantum Information remains the best textbook in this exciting field of science. This 10th anniversary edition includes an introduction from the authors setting the work in context. This comprehensive textbook describes such remarkable effects as fast quantum algorithms, quantum teleportation, quantum cryptography and quantum error-correction. Quantum mechanics and computer science are introduced before moving on to describe what a quantum computer is, how it can be used to solve problems faster than 'classical' computers and its real-world implementation. It concludes with an in-depth treatment of quantum information. Containing a wealth of figures and exercises, this well-known textbook is ideal for courses on the subject, and will interest beginning graduate students and researchers in physics, computer science, mathematics, and electrical engineering.

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