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Building and Civil Technology-Chris De Jager 1999

Industrial Electronics N3-Johann Kraft 2000

Mathematics N1-D. Duffield 2001

Reeds Vol 6: Basic Electrotechnology for

Marine Engineers-Christopher Lavers 2013-04-22 This book provides a comprehensive coverage of the basic theoretical work required by marine engineering officers and electrotechnical officers (ETOs), putting into place key fundamental building blocks and topics in electrotechnology before progressing to more complex topics and electromagnetic systems. Revisions will include important new material on emergent technology such as image intensifiers, the increased maritime use of LEDs, examples of ship systems including power distribution systems, and references to modern ship systems, eg. GPS, ECDIS, Radar, AIS, Comms outfits, etc. This essential text offers a truly rigorous approach to the key topic of electrotechnology.

Electrotechnology Practice-Jeffery Hampson 2019-06-07 Electrotechnology Practice is a practical text that accompanies Hampson/Hanssen's theoretical Electrical Trade Principles. It covers essential units of competencies in the two key qualifications in the UEE Electrotechnology Training Package: - Certificate II in Electrotechnology (Career Start) - Certificate III in Electrotechnology Electrician Aligned with the latest Australian and New Zealand standards, the text references the Wiring Rules (AS/NZS 3000:2018) and follows the uniform structure and system of delivery as recommended by the nationally accredited vocational education and training authorities. More than 1000 illustrations convey to the learner various concepts and real-world aspects of electrical practices, a range of fully worked examples and review questions support student learning, while assessment-style worksheets support the volume of assessment. Electrotechnology Practice has strong coverage of the electives for Cert II and Cert III, preparing students to eligibly sit for the Capstone Assessment or the Licenced Electrician's Assessment (LEA). as a mandatory requirement to earn an Electrician's Licence. Premium online teaching and learning tools are available on the MindTap platform.

Electrical Engineering- 1922

Record and Practice Journal-Ron Larson 2013 This student-friendly, all-in-one workbook contains a place to work through Activities, as well as extra practice workskeets, a glossary, and manipulatives. The Record and Practice Journal is available in Spanish in both print and online.

Real Happy Family-Caeli Wolfson Widger 2014 When full-time Hollywood party girl Lorelei auditions for television's hottest reality show, she finds her life self-destructing after her drug-addled mother wages a racially-slanted war against the stunning, young, African-American woman who won the role. 10,000 first printing.

Statistics and Probability for Engineering Applications-William DeCoursey 2003-05-14 Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the

back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory

GATE Electrical Engineering 2013-17 Past Solved papers-Disha Experts 2017-08-01 Book covers past 5 years questions(2013-2017) from previous GATE examinations.

Shadow of the Raven-Tessa Harris 2015-02-01 Ensconced in the woods of rural England, 1784, American anatomist Dr. Thomas Silkstone hunts for justice amid a maelstrom of madness, murder, and social upheaval. . . In the notorious mental hospital known as Bedlam, Dr. Thomas Silkstone seeks out a patient with whom he is on intimate terms. But he is unprepared for the state in which he finds Lady Lydia Farrell. Shocked into action, Thomas vows to help free Lydia by appealing to the custodian of her affairs, Mr. Nicholas Lupton. But when Silkstone arrives at the Boughton Estate to speak to Lupton, he finds that another form of madness has taken over the village. . . Sweeping changes to the Boughton Estate threaten to leave many villagers, who are rightfully angry, destitute. After a single shot rings out and a man dies in the woods, it appears that the desperate villagers have turned to murder to avenge their cause. But for Thomas, a post-mortem on the victim raises more questions than answers. Although he manages to save an innocent man from the gallows, a second murder warns him of his potentially fatal situation. Soon he discovers a conspiracy far more sinister than anything he has ever faced. But who it leads to is the last person he suspects. . . Outstanding praise for Tessa

Harris and her Dr. Thomas Silkstone Mysteries! The Devil's Breath "Excellent. . .Both literally and figuratively atmospheric, this will appeal to fans of Imogen Robertson's series during the same period." --Publishers Weekly (starred review) "Stunning. . .perfect book club fodder." --Library Journal "A fascinating series. . .Harris is at her vivid best describing in precise, fearsome detail the 'Great Fogg'." --The New York Times Book Review The Dead Shall Not Rest "Highly recommended." --Historical Novel Reviews "Outstanding. . .well-rounded characters, cleverly concealed evidence and an assured prose style point to a long run for this historical series." --Publishers Weekly (starred review) "Populated with real historical characters and admirably researched, Harris's novel features a complex and engrossing plot. A touch of romance makes this sophomore outing even more enticing. Savvy readers will also recall Hilary Mantel's The Giant, O'Brien." --Library Journal The Anatomist's Apprentice "Densely plotted. . . We await--indeed, demand--the sequel." --The New York Times Book Review "An absorbing debut. . . Harris has more than a few tricks up her sleeve and even veteran armchair puzzle solvers are likely to be surprised." --Publishers Weekly "Smart misdirection and time-period appropriate medical details make for a promising start to a new series. A strong choice for readers of Ariana Franklin and Caleb Carr." --Library Journal

Introduction to Applied Linear Algebra-Stephen Boyd 2018-06-07 A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

SSC-JE 2020 (Prelims) 2007- 2018: Electrical Engineering Topic wise Previous Years Solved Question Papers-Onlineverdan This Book of SSC-JE (Prelims) for Electrical Engineering consists Previous Years question of SSC-JE from 2007 to 2018 (held in September 2019). The questions are segregated in topic-wise pattern encompassing all subjects, such as,

Network, Measurements, Electrical Machines, Power Systems, Basic Electronics, Control Systems, DE and EMFT. The Book has collection of last 32 papers of SSC-JE which become it an ideal Book for Electrical Engineering aspirants.

SSC-JE 2020 (Prelims) 2007- 2018: Electrical Engineering Topic wise Previous Years Solved Question Papers (Hindi & English) Volume-I-Onlineverdan To describe explanations in more authentic and in detailed way, the whole syllabus of SSC-JE (Prelims) is divided in two Volumes. This Volume-I of SSC-JE Electrical Engineering consists three subjects; Network, Measurements and Basic Electronics in both Hindi & English language, so that Diploma students may also be benefitted. All subjects are divided in their sub-topics to provide precise and particular study pattern among the students. The Book has collection of last 32 papers of SSC-JE from 2007 to 2018 (held in September 2019) which become it an ideal Book for Electrical Engineering aspirants.

Probability and Random Processes for Electrical and Computer Engineers-John A. Gubner 2006-06-01 The theory of probability is a powerful tool that helps electrical and computer engineers to explain, model, analyze, and design the technology they develop. The text begins at the advanced undergraduate level, assuming only a modest knowledge of probability, and progresses through more complex topics mastered at graduate level. The first five chapters cover the basics of probability and both discrete and continuous random variables. The later chapters have a more specialized coverage, including random vectors, Gaussian random vectors, random processes, Markov Chains, and convergence. Describing tools and results that are used extensively in the field, this is more than a textbook; it is also a reference for researchers working in communications, signal processing, and computer network traffic analysis. With over 300 worked examples, some 800 homework problems, and sections for exam

preparation, this is an essential companion for advanced undergraduate and graduate students. Further resources for this title, including solutions (for Instructors only), are available online at www.cambridge.org/9780521864701.

SSC-JE 2020 (Prelims) 2007- 2018: Electrical Engineering Topic wise Previous Years Solved Question Papers (Hindi & English) Volume-II-Onlineverdan To describe explanations in more authentic and in detailed way, the whole syllabus of SSC-JE (Prelims) is divided in two Volumes. This Volume-II of SSC-JE Electrical Engineering consists major subjects, like, Electrical Machines, Power Systems; and minor subjects, like, DE, EMFT, Control Systems in both Hindi & English language, so that Diploma students may also be benefitted. All subjects are divided in their sub-topics to provide precise and particular study pattern among the students. The Book has collection of last 32 papers of SSC-JE from 2007 to 2018 (held in September 2019) which become it an ideal Book

for Electrical Engineering aspirants.

Fitting Statistical Distributions-Zaven A. Karian 2000-05-24 Throughout the physical and social sciences, researchers face the challenge of fitting statistical distributions to their data. Although the study of statistical modelling has made great strides in recent years, the number and variety of distributions to choose from-all with their own formulas, tables, diagrams, and general properties-continue to create problems. For a specific application, which of the dozens of distributions should one use? What if none of them fit well? Fitting Statistical Distributions helps answer those questions. Focusing on techniques used successfully across many fields, the authors present all of the relevant results related to the Generalized Lambda Distribution (GLD), the Generalized Bootstrap (GB), and Monte Carlo simulation (MC). They provide the tables, algorithms, and computer programs needed for fitting continuous probability distributions to data in a wide variety of

circumstances-covering bivariate as well as univariate distributions, and including situations where moments do not exist. Regardless of your specific field-physical science, social science, or statistics, practitioner or theorist-Fitting Statistical Distributions is required reading. It includes wide-ranging applications illustrating the methods in practice and offers proofs of key results for those involved in theoretical development. Without it, you may be using obsolete methods, wasting time, and risking incorrect results.

Some Are Sicker Than Others-Andrew Seaward 2012-04-01 ADDICTION: CUNNING, BAFFLING, & POWERFUL In this gripping debut novel by Andrew Seaward, the lives of three addicts converge following an accidental and horrific death. Monty Miller, a self-destructive, codependent alcoholic, is wracked by an obsession to drink himself to death as punishment for a fatal car accident he didn't cause. Dave Bell, a former all-American track star turned washed-up high school volleyball coach, routinely chauffeurs his bus full of teens on a belly full of liquor and head full of crack. Angie Mallard, a recently divorced housewife with three estranged children, will go to any lengths to restore the family she lost to crystal meth. All three are court-mandated to a secluded drug rehab high in the foothills of the Rocky Mountains. There, they learn the universal truth among alcoholics and addicts: Though they may all be sick...SOME ARE SICKER THAN OTHERS. Based on the author's own personal experience with substance abuse and twelve-step programs, Some Are Sicker Than Others, transcends the cliches of the typical recovery story by exploring the insidiousness of addiction and the harrowing effect it has on not just the afflicted, but everyone it touches. With the harsh realism of Brett Easton Ellis and the dark, confrontational humor of Chuck Palahniuk, Mr. Seaward takes the reader deep inside the psyche of the addict and portrays, in very explicit details, the psychological and physiological effects of withdrawal and the various stages of recovery.

Fundamentals of Electrical Engineering-

Structure and Interpretation of Computer Programs - 2nd Edition-Harold Abelson Structure and Interpretation of Computer Programs by Harold Abelson and Gerald Jay Sussman is licensed under a Creative Commons Attribution-NonCommercial 3.0 License.

Engineering Science N4-Rousseau 1994-12

Time Machine Tales-Paul J. Nahin 2016-12-24 This book contains a broad overview of time travel in science fiction, along with a detailed examination of the philosophical implications of time travel. The emphasis of this book is now on the philosophical and on science fiction, rather than on physics, as in the author's earlier books on the subject. In that spirit there are, for example, no Tech Notes filled with algebra, integrals, and differential equations, as there are in the first and second editions of TIME MACHINES. Writing about time travel is, today, a respectable business. It hasn't always been so. After all, time travel, prima facie, appears to violate a fundamental law of nature; every effect has a cause, with the cause occurring before the effect. Time travel to the past, however, seems to allow, indeed to demand, backwards causation, with an effect (the time traveler emerging into the past as he exits from his time machine) occurring before its cause (the time traveler pushing the start button on his machine's control panel to start his trip backward through time). Time Machine Tales includes new discussions of the advances by physicists and philosophers that have appeared since the publication of TIME MACHINES in 1999, examples of which are the chapters on time travel paradoxes. Those chapters have been brought up-to-date with the latest philosophical thinking on the paradoxes.

Building Science N2-C. F. J. Bekker 1999-12

Linear Models in Statistics-Alvin C. Rencher 2008-01-18 The essential introduction to the theory and application of linear models—now in a valuable new edition Since most advanced statistical tools are generalizations of the linear model, it is neces-sary to first master the linear model in order to move forward to more advanced concepts. The linear model remains the main tool of the applied statistician and is central to the training of any statistician regardless of whether the focus is applied or theoretical. This completely revised and updated new edition successfully develops the basic theory of linear models for regression, analysis of variance, analysis of covariance, and linear mixed models. Recent advances in the methodology related to linear mixed models, generalized linear models, and the Bayesian linear model are also addressed. Linear Models in Statistics, Second Edition includes full coverage of advanced topics, such as mixed and generalized linear models, Bayesian linear models, two-way models with empty cells, geometry of least squares, vector-matrix calculus, simultaneous inference, and logistic and nonlinear regression. Algebraic, geometrical, frequentist, and Bayesian approaches to both the inference of linear models and the analysis of variance are also illustrated. Through the expansion of relevant material and the inclusion of the latest technological developments in the field, this book provides readers with the theoretical foundation to correctly interpret computer software output as well as effectively use, customize, and understand linear models. This modern Second Edition features: New chapters on Bayesian linear models as well as random and mixed linear models Expanded discussion of two-way models with empty cells Additional sections on the geometry of least squares Updated coverage of simultaneous inference The book is complemented with easy-to-read proofs, real data sets, and an extensive bibliography. A thorough review of the requisite matrix algebra has been addedfor transitional purposes, and numerous

theoretical and applied problems have been incorporated with selected answers provided at the end of the book. A related Web site includes additional data sets and SAS® code for all numerical examples. Linear Model in Statistics, Second Edition is a must-have book for courses in statistics, biostatistics, and mathematics at the upper-undergraduate and graduate levels. It is also an invaluable reference for researchers who need to gain a better understanding of regression and analysis of variance.

Foundations of Analog and Digital Electronic Circuits-Anant Agarwal 2005-07-01 Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of ''abstraction,'' the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

Principles and Applications of Electrical Engineering-Giorgio Rizzoni 2004 The fourth edition of "Principles and Applications of Electrical Engineering" provides comprehensive coverage of the principles of electrical,

electronic, and electromechanical engineering to non-electrical engineering majors. Building on the success of previous editions, this text focuses on relevant and practical applications that will appeal to all engineering students.

Introduction to Instrumentation and Measurements-Robert B. Northrop 2018-09-03 Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring

electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

Reeds Vol 7: Advanced Electrotechnology for Marine Engineers-Christopher Lavers 2014-12-11 This book is a companion to Reeds Vol. 6: Basic Electrotechnology for Marine Engineers and covers aspects of theory beyond the scope of Volume 6. The book will cover the more advanced topics in electrotechnology for professional trainees studying Merchant Navy Marine Engineering Certificates of Competency (CoC) as well as the syllabi in electrotechnology for undergraduates studying for BSc, BEng and MEng degrees in marine engineering and electrical engineering. The new edition provides worked examples and test exam questions, corresponding to current Merchant Navy Qualifications. Other revisions will include new material on emerging technology areas such as image intensifiers (photoelectric effect, secondary emission), thermal imaging cameras, radar, increased maritime use of LEDs, various semiconductor physics devices including the laser, as well as discussions of binary or digital theory.

Data-intensive Text Processing with MapReduce-Jimmy Lin 2010 Our world is being revolutionized by data-driven methods: access to large amounts of data has generated new insights and opened exciting new opportunities in commerce, science, and computing applications. Processing the enormous quantities

of data necessary for these advances requires large clusters, making distributed computing paradigms more crucial than ever. MapReduce is a programming model for expressing distributed computations on massive datasets and an execution framework for large-scale data processing on clusters of commodity servers. The programming model provides an easy-to-understand abstraction for designing scalable algorithms, while the execution framework transparently handles many system-level details, ranging from scheduling to synchronization to fault tolerance. This book focuses on MapReduce algorithm design, with an emphasis on text processing algorithms common in natural language processing, information retrieval, and machine learning. We introduce the notion of MapReduce design patterns, which represent general reusable solutions to commonly occurring problems across a variety of problem domains. This book not only intends to help the reader "think in MapReduce", but also discusses limitations of the programming model as well. This volume is a printed version of a work that appears in the Synthesis Digital Library of Engineering and Computer Science. Synthesis Lectures provide concise, original presentations of important research and development topics, published quickly, in digital and print formats. For more information visit www.morganclaypool.com

Building Science N3-Bekker 1998-12

Probability, Statistics, and Random Processes For Electrical Engineering-Alberto Leon-Garcia 2011-11-21 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This is the standard textbook for courses on probability and statistics, not substantially updated. While helping students to develop their problem-solving skills, the author motivates students with practical applications from various areas of ECE that demonstrate the relevance of probability

theory to engineering practice. Included are chapter overviews, summaries, checklists of important terms, annotated references, and a wide selection of fully worked-out real-world examples. In this edition, the Computer Methods sections have been updated and substantially enhanced and new problems have been added.

Electromagnetic Foundations of Electrical Engineering-J. A. Brandão Faria 2008-09-15 The applications of electromagnetic phenomena within electrical engineering have been evolving and progressing at a fast pace. In contrast, the underlying principles have been stable for a long time and are not expected to undergo any changes. It is these electromagnetic field fundamentals that are the subject of discussion in this book with an emphasis on basic principles, concepts and governing laws that apply across the electrical engineering discipline. Electromagnetic Foundations of Electrical Engineering begins with an explanation of Maxwell's equations, from which the fundamental laws and principles governing the static and time-varying electric and magnetic fields are derived. Results for both slowly- and rapidly-varying electromagnetic field problems are discussed in detail. Key aspects: Offers a project portfolio, with detailed solutions included on the companion website, which draws together aspects from various chapters so as to ensure comprehensive understanding of the fundamentals. Provides end-of-chapter homework problems with a focus on engineering applications. Progresses chapter by chapter to increasingly more challenging topics, allowing the reader to grasp the more simple phenomena and build upon these foundations. Enables the reader to attain a level of competence to subsequently progress to more advanced topics such as electrical machines, power system analysis, electromagnetic compatibility, microwaves and radiation. This book is aimed at electrical engineering students and faculty staff in sub-disciplines as diverse as power and energy systems, circuit theory and telecommunications. It will also appeal to existing electrical

engineering professionals with a need for a refresher course in electromagnetic foundations.

Engineering Drawing-Basant Agrawal 2008

The Internet and the Mass Media-Lucy Küng 2008-05-14 "This book analyses issues of the internet and mass media in a rapidly changing environment. It covers a wide range of fundamentals which will be in effect for a longer time, and reflects the benefits of international and interdisciplinary collaboration." - Heinz-Werner Nienstedt, President, European Media Management Education Association "This excellent book will be of great use to researchers, teachers and students interested in the relationship between the Internet and the mass media and it offers an invaluable contribution to the literature. The overall picture that emerges from this book is one that is very balanced, stressing both the radical potential of the internet and the ways in which the various media sectors have experienced the impact differently." - Colin Sparks, University of Westminster What impact has the Internet really had on the media industries? What new regulatory policies and business models are driven by the Internet? And what are the effects of the Internet on how we produce, access and consume music, film, television and other media content? After an initial flurry of analysis and prediction of the future of the dot com boom, this is the first book to review the developments of the first Internet era and investigate its actual outcomes. Bringing together sophisticated analyses from leading scholars in the field, The Internet and the Mass Media explores the far-reaching implications of the Internet from economic, regulatory, strategic and organizational perspectives. This cross-disciplinary, international view is essential for a rich, nuanced understanding of the many technological, economic, and social changes the Internet has brought to the way we live and work.

Electrical Engineering- 1913

Feedback Systems-Karl Johan Åström 2010-04-12 This book provides an introduction to the mathematics needed to model, analyze, and design feedback systems. It is an ideal textbook for undergraduate and graduate students, and is indispensable for researchers seeking a self-contained reference on control theory. Unlike most books on the subject, Feedback Systems develops transfer functions through the exponential response of a system, and is accessible across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. They provide exercises at the end of every chapter, and an accompanying electronic solutions manual is available. Feedback Systems is a complete one-volume resource for students and researchers in mathematics, engineering, and the sciences. Covers the mathematics needed to model, analyze, and design feedback systems Serves as an introductory textbook for students and a self-contained resource for researchers Includes exercises at the end of every chapter Features an electronic solutions manual Offers techniques applicable across a range of disciplines

Computational Complexity-Sanjeev Arora 2009-04-20 New and classical results in

computational complexity, including interactive proofs, PCP, derandomization, and quantum computation. Ideal for graduate students.

Analytic Combinatorics-Philippe Flajolet 2009-01-15 Analytic combinatorics aims to enable precise quantitative predictions of the properties of large combinatorial structures. The theory has emerged over recent decades as essential both for the analysis of algorithms and for the study of scientific models in many disciplines, including probability theory, statistical physics, computational biology, and information theory. With a careful combination of symbolic enumeration methods and complex analysis, drawing heavily on generating functions, results of sweeping generality emerge that can be applied in particular to fundamental structures such as permutations, sequences, strings, walks, paths, trees, graphs and maps. This account is the definitive treatment of the topic. The authors give full coverage of the underlying mathematics and a thorough treatment of both classical and modern applications of the theory. The text is complemented with exercises, examples, appendices and notes to aid understanding. The book can be used for an advanced undergraduate or a graduate course, or for self-study.

Engineering Science N1- 2000

Mathematics for Computer Science-Eric Lehman 2017-03-08 This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction;

state machines and invariants; recurrences;
generating functions.