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[Digital Control Engineering](#) Springer Science & Business Media

An integrated package of powerful probabilistic tools and key applications in modern mathematical data science.

[Conceptualizing the Regulatory Thicket](#) Peachpit Press

This is the second edition of Wil van der Aalst's seminal book on process mining, which now discusses the field also in the broader context of data science and big data approaches. It includes several additions and updates, e.g. on inductive mining techniques, the notion of alignments, a considerably expanded section on software tools and a completely new chapter of process mining in the large. It is self-contained, while at the same time covering the entire process-mining spectrum from process discovery to predictive analytics. After a general introduction to data science and process mining in Part I, Part II provides the basics of business process modeling and data mining necessary to understand the remainder of the book. Next, Part III focuses on process discovery as the most important process mining task, while Part IV moves beyond discovering the control flow of processes, highlighting conformance checking, and organizational and time perspectives. Part V offers a guide to successfully applying process mining in practice, including an introduction to the widely used open-source tool ProM and several commercial products. Lastly, Part VI takes a step back, reflecting on the material presented and the key open challenges. Overall, this book provides a comprehensive overview of the state of the art in process mining. It is intended for business process analysts, business consultants, process managers, graduate students, and BPM researchers. [The Generic Chaining](#) Springer Science & Business Media

This book examines the regulatory framework, regulatory objectives, regulatory logics, regulatory instruments, regulatory failures, and regulatory responses in China's financial market after the global financial crisis. The book provides an in-depth analysis of China's contemporary financial regulatory system, focusing on risks, regulation, and policies in practice. By drawing on public and private interest theories relating to financial regulation, the book contends that the controlled development of the banking sector, and the financial sector generally, has transformed China's banks into more market-oriented institutions and increased public sector growth. However, China's financial market and financial regulation have some inherent weaknesses and deficiencies. This book also offers insights into how this can be improved or adapted to minimize systemic risks in China's financial sector. This book tries to prove that financial regulation is not just a vehicle for maintaining efficient financial markets but a primary tool through which the Chinese government achieves its political and economic objectives. More fundamentally, according to the law and finance theory, strong market and vibrant judicial systems are needed to further modernize China's financial markets and market economy. The book will be a useful reference for anyone interested in learning from the Chinese experience.

[International Documentary](#) Springer Science & Business Media

Discusses the fundamentals of digital video and television lighting, covering such topics as equipment, setups, color correction, lighting instruments, and studio lighting.

[Science Videos](#) Wiley-IEEE Press

This book is targeted mainly to the undergraduate students of USA, UK and other European countries, and the M. Sc of Asian countries, but will be found useful for the graduate students, Graduate Record Examination (GRE), Teachers and Tutors. This is a by-product of lectures given at the Osmania University, University of Ottawa and University of Tebrez over several years, and is intended to assist the students in their assignments and examinations. The book covers a wide spectrum of disciplines in Modern Physics, and is mainly based on the actual examination papers of UK and the Indian Universities. The selected problems display a large variety and conform to syllabi which are currently being used in various countries. The book is divided into ten chapters. Each chapter begins with basic concepts containing a set of formulae and explanatory notes for quick reference, followed by a number of problems and their detailed solutions. The problems are judiciously

selected and are arranged section-wise. The solutions are neither pedantic nor terse. The approach is straight forward and step-by-step solutions are elaborately provided. More importantly the relevant formulas used for solving the problems can be located in the beginning of each chapter. There are approximately 150 line diagrams for illustration. Basic quantum mechanics, elementary calculus, vector calculus and Algebra are the pre-requisites.

[The Camera Assistant's Manual](#) Academic Press

Two central problems in computer science are P vs NP and the complexity of matrix multiplication. The first is also a leading candidate for the greatest unsolved problem in mathematics. The second is of enormous practical and theoretical importance. Algebraic geometry and representation theory provide fertile ground for advancing work on these problems and others in complexity. This introduction to algebraic complexity theory for graduate students and researchers in computer science and mathematics features concrete examples that demonstrate the application of geometric techniques to real world problems. Written by a noted expert in the field, it offers numerous open questions to motivate future research. Complexity theory has rejuvenated classical geometric questions and brought different areas of mathematics together in new ways. This book will show the beautiful, interesting, and important questions that have arisen as a result.

[The Firmware Handbook](#) Cambridge University Press

[High-Dimensional Probability](#) Cambridge University Press

[Submarine Mass Movements and Their Consequences](#)

Routledge

This easy-to-use guide covers troubleshooting tips and tricks for Mac hardware and software, written by the well-known Macworld columnist and Macintosh guru Chris Breen. The book contains troubleshooting tips and techniques for both Mac OS 9 and OS X, and additional projects for making a Macintosh more productive-sharing files, making Mac OS X work more like Mac OS 9, and more.

[Watermark 3](#) Springer

Each book offers an introduction to a particular digital SLR camera, then explores a number of shooting situations, recommending how to get the best possible shots, in a series where each entry includes full-color photos and tips and information not found in the user's manual.

[The Iranian Languages](#) Bright Publications

The algorithmic solution of problems has always been one of the major concerns of mathematics. For a long time such solutions were based on an intuitive notion of algorithm. It is only in this century that metamathematical problems have led to the intensive search for a precise and sufficiently general formalization of the notions of computability and algorithm. In the 1930s, a number of quite different concepts for this purpose were proposed, such as Turing machines, WHILE-programs, recursive functions, Markov algorithms, and Thue systems. All these concepts turned out to be equivalent, a fact summarized in Church's thesis, which says that the resulting definitions form an adequate formalization of the intuitive notion of computability. This had and continues to have an enormous effect. First of all, with these notions it has been possible to prove that various problems are algorithmically unsolvable. Among of group these undecidable problems are the halting problem, the word problem theory, the Post correspondence problem, and Hilbert's tenth problem. Secondly, concepts like Turing machines and WHILE-programs had a strong influence on the development of the first computers and programming languages. In the era of digital computers, the question of finding efficient solutions to algorithmically solvable problems has become increasingly important. In addition, the fact that some problems can be solved very efficiently, while others seem to defy all attempts to find an efficient solution, has called for a deeper understanding of the intrinsic computational difficulty of problems.

[1000 Solved Problems in Classical Physics](#) Cambridge University Press

This volume gathers the latest advances, innovations and applications in the field of vibration and technology of machinery, as presented by leading international researchers and engineers at the XV International Conference on Vibration Engineering and Technology of Machinery (VETOMAC), held in Curitiba, Brazil on November 10-15, 2019. Topics include concepts and methods in dynamics, dynamics of mechanical and structural systems, dynamics and control, condition monitoring, machinery and structural dynamics, rotor dynamics, experimental techniques, finite element model updating, industrial case studies, vibration control and energy harvesting, and MEMS. The contributions, which were selected through a rigorous international peer-review process, share exciting ideas that will spur novel research directions and foster new multidisciplinary collaborations.

[Adobe Premiere Elements For Dummies](#) Springer Science & Business Media

Occupational Therapy and Stroke guides newly qualified occupational therapists (and those new to the field of stroke management) through the complexities of treating people

following stroke. It encourages and assists therapists to use their skills in problem solving, building on techniques taught and observed as an undergraduate. Written and edited by practising occupational therapists, the book acknowledges the variety of techniques that may be used in stroke management and the scope of the occupational therapist's role. Chapters span such key topics as early intervention and the theoretical underpinnings of stroke care, as well as the management of motor, sensory, cognitive and perceptual deficits. They are written in a user-friendly style and presented in a form that enables the therapist to review the subject prior to assessment and treatment planning. Complex problems are grouped together for greater clarity. This second edition has been fully revised and updated in line with the WHO ICF model, National Clinical Guidelines and Occupational Therapy standards. It is produced on behalf of the College of Occupational Therapists Specialist Section - Neurological Practice.

[Biometric Recognition](#) Elsevier

This book contains a modern selection of about 200 solved problems and examples arranged in a didactic way for hands-on experience with course work in a standard advanced undergraduate/first-year graduate class in thermodynamics and statistical physics. The principles of thermodynamics and equilibrium statistical physics are few and simple, but their application often proves more involved than it may seem at first sight. This book is a comprehensive complement to any textbook in the field, emphasizing the analogies between the different systems, and paves the way for an in-depth study of solid state physics, soft matter physics, and field theory.

[Adobe Premiere Pro For Dummies](#) Springer Science & Business Media

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.

[Proofs and Fundamentals](#) Springer Science & Business Media

The fundamental question of characterizing continuity and boundedness of Gaussian processes goes back to Kolmogorov. After contributions by R. Dudley and X. Fernique, it was solved by the author. This book provides an overview of "generic chaining", a completely natural variation on the ideas of Kolmogorov. It takes the reader from the first principles to the edge of current knowledge and to the open problems that remain in this domain.

[Berkeley Problems in Mathematics](#) Taylor & Francis

This book basically caters to the needs of undergraduates and graduates physics students in the area of classical physics, specially Classical Mechanics and Electricity and Electromagnetism. Lecturers/ Tutors may use it as a resource book. The contents of the book are based on the syllabi currently used in the undergraduate courses in USA, U.K., and other countries. The book is divided into 15 chapters, each chapter beginning with a brief but adequate summary and necessary formulas and Line diagrams followed by a variety of typical problems useful for assignments and exams. Detailed solutions are provided at the end of each chapter.

[Radar Instruction Manual](#) John Wiley & Sons

This book collects approximately nine hundred problems that have appeared on the preliminary exams in Berkeley over the last twenty years. It is an invaluable source of problems and solutions. Readers who work through this book will develop problem solving skills in such areas as real analysis, multivariable calculus, differential equations, metric spaces, complex analysis, algebra, and linear algebra.

[Computational Methods for Representations of Groups and Algebras](#) John Wiley & Sons

This book presents material from 3 survey lectures and 14 additional invited lectures given at the Euroconference "Computational Methods for Representations of Groups and Algebras" held at Essen University in April 1997. The purpose of this meeting was to provide a survey of general theoretical and computational methods and recent advances in the representation theory of groups and algebras. The foundations of these research areas were laid in survey articles by P. DrAxler and R. NArnberg on "Classification problems in the representation theory of finite-dimensional algebras," R. A. Wilson on "Construction of finite matrix groups" and E. Green on "Noncommutative GrAbner bases, and projective resolutions." Furthermore, new applications of the computational methods in linear algebra to the revision of the classification of finite simple sporadic groups are presented. Computational tools (including high-performance computations on supercomputers) have become increasingly important for classification problems. They are also inevitable for the construction of projective resolutions of finitely generated modules over finite-dimensional algebras and the study of group cohomology and rings of invariants. A major part of this book is devoted to a survey of algorithms for computing special examples in the study of Grothendieck groups, quadratic forms and derived categories of finite-dimensional algebras. Open questions on Lie algebras, Bruhat

orders, Coxeter groups and Kazhdan Lusztig polynomials are investigated with the aid of computer programs. The contents of this book provide an overview on the present state of the art. Therefore it will be very useful for graduate students and researchers in mathematics, computer science and physics.

The Apple Macintosh Book Taylor & Francis

Electrical Engineering Accelerated Stress Testing Handbook Guide for Achieving Quality Products As we move closer to a genuinely global economy, the pressure to develop highly reliable products on ever-tighter schedules will increase. Part of a designer's "toolbox" for achieving product reliability in a compressed time frame should be a set of best practices for utilizing accelerated stress testing (AST). The Accelerated Stress Testing Handbook delineates a core set of AST practices as part of an overall methodology for enhancing hardware product reliability. The techniques presented will teach readers to identify design deficiencies and problems with component quality or manufacturing processes early in the product's life, and then to take corrective action as quickly as possible. A wide array of case studies gleaned from leading practitioners of AST supplement the theory and methodology, which will provide the reader with a more concrete idea of how AST truly enhances quality in a reduced time frame. Important topics covered include: * Theoretical basis for AST * General AST best practices * AST design and manufacturing processes * AST equipment and techniques * AST process safety qualification In this handbook, AST cases studies demonstrate thermal, vibration, electrical, and liquid stress application; failure mode analysis; and corrective action techniques. Individuals who would be interested in this book include: reliability engineers and researchers, mechanical and electrical engineers, those involved with all facets of electronics and telecommunications product design and manufacturing, and people responsible for implementing quality and process improvement programs.

Geometry and Complexity Theory Springer

The LNCS volume 11818 constitutes the proceedings of the 14th Chinese Conference on Biometric Recognition, held in Zhuzhou, China, in October 2019. The 56 papers presented in this book were carefully reviewed and selected from 74 submissions. The papers cover a wide range of topics such as face recognition and analysis; hand-based biometrics; eye-based biometrics; gesture, gait, and action; emerging biometrics; feature extraction and classification theory; and behavioral biometrics.