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## KEY=PROGRAMMING - BLAKE JILLIAN

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**Introduction to Information Retrieval** *Cambridge University Press* **Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.**

**Mathematics Assessment and Evaluation Imperatives for Mathematics Educators** *SUNY Press* **Are current testing practices consistent with the goals of the reform movement in school mathematics? If not, what are the alternatives? How can authentic performance in mathematics be assessed? These and similar questions about tests and their uses have forced those advocating change to examine the way in which mathematical performance data is gathered and used in American schools. This book provides recent views on the issues surrounding mathematics tests, such as the need for valid performance data, the implications of the Curriculum and Evaluation Standards for School Mathematics for test development, the identification of valid items and tests in terms of the Standards, the procedures now being used to construct a sample of state assessment tests, gender differences in test taking, and methods of reporting student achievement.**

**Data Mining: Concepts and Techniques** *Elsevier* **Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects**

**Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields** Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

**Numerical Solution of Ordinary Differential Equations** *John Wiley & Sons* **A concise introduction to numerical methods and the mathematical framework needed to understand their performance**

**Numerical Solution of Ordinary Differential Equations** presents a complete and easy-to-follow introduction to classical topics in the numerical solution of ordinary differential equations. The book's approach not only explains the presented mathematics, but also helps readers understand how these numerical methods are used to solve real-world problems. Unifying perspectives are provided throughout the text, bringing together and categorizing different types of problems in order to help readers comprehend the applications of ordinary differential equations. In addition, the authors' collective academic experience ensures a coherent and accessible discussion of key topics, including: Euler's method Taylor and Runge-Kutta methods General error analysis for multi-step methods Stiff differential equations Differential algebraic equations Two-point boundary value problems Volterra integral equations Each chapter features problem sets that enable readers to test and build their knowledge of the presented methods, and a related Web site features MATLAB® programs that facilitate the exploration of numerical methods in greater depth. Detailed references outline additional literature on both analytical and numerical aspects of ordinary differential equations for further exploration of individual topics.

**Numerical Solution of Ordinary Differential Equations** is an excellent textbook for courses on the

numerical solution of differential equations at the upper-undergraduate and beginning graduate levels. It also serves as a valuable reference for researchers in the fields of mathematics and engineering. Monte Carlo Particle Transport Methods *CRC Press* With this book we try to reach several more-or-less unattainable goals namely: To compromise in a single book all the most important achievements of Monte Carlo calculations for solving neutron and photon transport problems. To present a book which discusses the same topics in the three levels known from the literature and gives us useful information for both beginners and experienced readers. It lists both well-established old techniques and also newest findings. Guide to Bluetooth Security Recommendations of the National Institute of Standards and Technology *DIANE Publishing* This document provides info. to organizations on the security capabilities of Bluetooth and provide recommendations to organizations employing Bluetooth technologies on securing them effectively. It discusses Bluetooth technologies and security capabilities in technical detail. This document assumes that the readers have at least some operating system, wireless networking, and security knowledge. Because of the constantly changing nature of the wireless security industry and the threats and vulnerabilities to the technologies, readers are strongly encouraged to take advantage of other resources (including those listed in this document) for more current and detailed information. Illustrations. Comparative Quantification of Health Risks: Sexual and reproductive health *World Health Organization* Accompanying CD-ROM contains annex tables detailing population attributable fractions, mortality, and disease burden for selected major risk factors. Real Options Analysis Tools and Techniques for Valuing Strategic Investments and Decisions *John Wiley & Sons* "Mun demystifies real options analysis and delivers a powerful, pragmatic guide for decision-makers and practitioners alike. Finally, there is a book that equips professionals to easily recognize, value, and seize real options in the world around them." --Jim Schreckengast, Senior VP, R&D Strategy, Gemplus International SA, France Completely revised and updated to meet the challenges of today's dynamic business environment, Real Options Analysis, Second Edition offers you a fresh look at evaluating capital investment strategies by taking the strategic decision-making process into consideration. This comprehensive guide provides both a qualitative and quantitative description of real options; the methods used in solving real options; why and when they are used; and the applicability of these methods in decision making. Biodiversity and Human Health *Island Press* Biodiversity and Human Health brings together leading thinkers on the global environment and biomedicine to explore the human health consequences of the loss of biological diversity. Principles of Astrophysics Astrophysics is a branch of astronomy that uses the principles of physics and chemistry to determine the nature of astronomical objects. Stars, galaxies, the cosmic microwave background, interstellar medium, etc. are studied in astrophysics. The emissions from such astronomical objects are analyzed and their properties of luminosity, temperature, chemical composition and density are also examined. The study of galaxy formation and evolution, dark matter, dark energy, stellar evolution and dynamics, etc. are also within the scope of this field. The approaches to the study of astronomical objects and astronomical phenomena fall under the two categories of observational and theoretical astrophysics. Observations in astrophysics are made by studying the electromagnetic radiation using radio, optical, space-based telescopes, etc. Neutrino and gravitational wave observatories are modern detectors in observational astrophysics. Theoretical astrophysics uses analytical models and numerical simulations to develop a comprehension of space phenomena. This textbook provides comprehensive insights into the field of astrophysics. It elucidates the concepts and innovative models around prospective developments with respect to this area of study. In this book, constant effort has been made to make the understanding of the difficult concepts as easy and informative as possible, for the readers. Business Optimization Using Mathematical Programming An Introduction with Case Studies and Solutions in Various Algebraic Modeling Languages *Springer Nature* This book presents a structured approach to formulate, model, and solve mathematical optimization problems for a wide range of real world situations. Among the problems covered are production, distribution and supply chain planning, scheduling, vehicle routing, as well as cutting stock, packing, and nesting. The optimization techniques used to solve the problems are primarily linear, mixed-integer linear, nonlinear, and mixed integer nonlinear programming. The book also covers important considerations for solving real-world optimization problems, such as dealing with valid inequalities and symmetry during the modeling phase, but also data interfacing and visualization of results in a more and more digitized world. The broad range of ideas and approaches presented helps the reader to learn how to model a variety of problems from process industry, paper and metals industry, the energy sector, and logistics using mathematical optimization techniques. Annual Report on Medicare Extrusion The Definitive Processing Guide and Handbook *William Andrew* The second edition of Extrusion is designed to aid operators, engineers, and managers in extrusion processing in quickly answering practical day-to-day questions. The first part of the book provides the fundamental principles, for operators and engineers, of polymeric materials extrusion processing in single and twin screw extruders. The next section covers advanced topics including troubleshooting, auxiliary equipment, and coextrusion for operators, engineers, and managers. The final part provides applications case studies in key areas for engineers such as compounding, blown film, extrusion blow molding, coating, foam, and reprocessing. This practical guide to extrusion brings together both equipment and materials processing aspects. It covers basic and advanced topics, for reference and training, in thermoplastics processing in the extruder. Detailed reference data are provided on such important operating conditions as temperatures, start-up procedures, shear rates, pressure drops, and safety. A practical guide to the selection, design and optimization of extrusion processes and equipment Designed to improve production efficiency and product quality Focuses on practical fault analysis and troubleshooting techniques Optimization for Decision Making In the current context of the electronic governance of society, both administrations and citizens are demanding greater participation of all the actors involved in the decision-making process relative to the governance of society. This book presents collective works published in the recent Special Issue (SI) entitled "Optimization for Decision Making". These works give an appropriate response to the new challenges raised, the decision-making process can be done by applying different methods and tools, as well as using different objectives. In real-life problems, the formulation of decision-making problems and application of

optimization techniques to support decisions are particularly complex and a wide range of optimization techniques and methodologies are used to minimize risks, improve quality in making decisions, or, in general, to solve problems. In addition, a sensitivity or robustness analysis should be done to validate/analyze the influence of uncertainty regarding decision-making. This book brings together a collection of inter-/multi-disciplinary works applied to the optimization for decision making in a coherent manner. *Discrete Mathematics and Its Applications McGraw-Hill* A precise, relevant, comprehensive approach to mathematical concepts... *Sequential Experimentation in Clinical Trials Design and Analysis Springer Science & Business Media* *Sequential Experimentation in Clinical Trials: Design and Analysis* is developed from decades of work in research groups, statistical pedagogy, and workshop participation. Different parts of the book can be used for short courses on clinical trials, translational medical research, and sequential experimentation. The authors have successfully used the book to teach innovative clinical trial designs and statistical methods for Statistics Ph.D. students at Stanford University. There are additional online supplements for the book that include chapter-specific exercises and information. *Sequential Experimentation in Clinical Trials: Design and Analysis* covers the much broader subject of sequential experimentation that includes group sequential and adaptive designs of Phase II and III clinical trials, which have attracted much attention in the past three decades. In particular, the broad scope of design and analysis problems in sequential experimentation clearly requires a wide range of statistical methods and models from nonlinear regression analysis, experimental design, dynamic programming, survival analysis, resampling, and likelihood and Bayesian inference. The background material in these building blocks is summarized in Chapter 2 and Chapter 3 and certain sections in Chapter 6 and Chapter 7. Besides group sequential tests and adaptive designs, the book also introduces sequential change-point detection methods in Chapter 5 in connection with pharmacovigilance and public health surveillance. Together with dynamic programming and approximate dynamic programming in Chapter 3, the book therefore covers all basic topics for a graduate course in sequential analysis designs. *Autonomous Control for a Reliable Internet of Services Methods, Models, Approaches, Techniques, Algorithms, and Tools Springer* This open access book was prepared as a Final Publication of the COST Action IC1304 "Autonomous Control for a Reliable Internet of Services (ACROSS)". The book contains 14 chapters and constitutes a show-case of the main outcome of the Action in line with its scientific goals. It will serve as a valuable reference for undergraduate and post-graduate students, educators, faculty members, researchers, engineers, and research strategists working in this field. The explosive growth of the Internet has fundamentally changed the global society. The emergence of concepts like SOA, SaaS, PaaS, IaaS, NaaS, and Cloud Computing in general has catalyzed the migration from the information-oriented Internet into an Internet of Services (IoS). This has opened up virtually unbounded possibilities for the creation of new and innovative services that facilitate business processes and improve the quality of life. However, this also calls for new approaches to ensuring the quality and reliability of these services. The objective of this book is, by applying a systematic approach, to assess the state-of-the-art and consolidate the main research results achieved in this area. *Student Solutions Guide for Discrete Mathematics and Its Applications McGraw-Hill Companies* This text provides a balanced survey of major sub-fields within discrete mathematics. It demonstrates the utility of discrete mathematics in the solutions of real-world problems in diverse areas such as zoology, linguistics and business. Over 200 new problems have been added to this third edition. *Map Reading and Land Navigation Fm 3-25. 26* The field manual provides a standardized source document for Army-wide reference on map reading and land navigation. It applies to every soldier in the army regardless of service branch, MOS, or rank. This manual also contains both doctrine and training guidance on map reading and land navigation. Part One addresses map reading and Part Two, land navigation. The appendices include an introduction to orienteering and a discussion of several devices that can assist the soldier in land navigation. For soldiers, hunters, climbers, and hikers alike, this is the definitive guide to map reading and navigation. *Emerging Technologies for Education Second International Symposium, SETE 2017, Held in Conjunction with ICWL 2017, Cape Town, South Africa, September 20-22, 2017, Revised Selected Papers Springer* This book constitutes the thoroughly refereed post-workshop proceedings of the Second International Symposium, SETE 2017, held in conjunction with ICWL 2017, Cape Town, South Africa, in September 2017. The 52 full and 13 short papers were carefully reviewed and selected from 123 submissions. This symposium attempts to provide opportunities for the crossfertilization of knowledge and ideas from researchers in diverse fields that make up this interdisciplinary research area. *Soft Computing for Problem Solving SocProS 2018, Volume 2 Springer Nature* This two-volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving, SocProS 2018. This conference was a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), and Vellore Institute of Technology (India), and brought together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions. The book highlights the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers on algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It offers a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems that are difficult to solve using traditional methods. *A Survey of Relaxations and Approximations of the Power Flow Equations Foundations and Trends (R) in Electric Energy Systems* The techniques described in this monograph form the basis of running an optimally efficient modern day power system. It is a must-read for all students and researchers working on the cutting edge of electric power systems. *THz Communications Paving the Way Towards Wireless Tbps Springer Nature* This book describes the fundamentals of THz communications, spanning the whole range of applications, propagation and channel models, RF transceiver technology, antennas, baseband techniques, and networking interfaces. The requested data rate in wireless communications will soon reach from 100 Gbit/s up to 1 Tbps necessitating systems with ultra-high bandwidths of several 10s of GHz which are available only above 200 GHz. In the last decade, research at these

frequency bands has made significant progress, enabling mature experimental demonstrations of so-called THz communications, which are thus expected to play a vital role in future wireless networks. In addition to chapters by leading experts on the theory, modeling, and implementation of THz communication technology, the book also features the latest experimental results and addresses standardization and regulatory aspects. This book will be of interest to both academic researchers and engineers in the telecommunications industry.

**Drug-like Properties: Concepts, Structure Design and Methods from ADME to Toxicity Optimization** *Elsevier* Of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target, typically only a fraction of these have sufficient ADME/Tox properties to become a drug product. Understanding ADME/Tox is critical for all drug researchers, owing to its increasing importance in advancing high quality candidates to clinical studies and the processes of drug discovery. If the properties are weak, the candidate will have a high risk of failure or be less desirable as a drug product. This book is a tool and resource for scientists engaged in, or preparing for, the selection and optimization process. The authors describe how properties affect in vivo pharmacological activity and impact in vitro assays. Individual drug-like properties are discussed from a practical point of view, such as solubility, permeability and metabolic stability, with regard to fundamental understanding, applications of property data in drug discovery and examples of structural modifications that have achieved improved property performance. The authors also review various methods for the screening (high throughput), diagnosis (medium throughput) and in-depth (low throughput) analysis of drug properties. \* Serves as an essential working handbook aimed at scientists and students in medicinal chemistry \* Provides practical, step-by-step guidance on property fundamentals, effects, structure-property relationships, and structure modification strategies \* Discusses improvements in pharmacokinetics from a practical chemist's standpoint

**Information Management and Big Data 5th International Conference, SIMBig 2018, Lima, Peru, September 3-5, 2018, Proceedings** *Springer* This book constitutes the refereed proceedings of the 5th International Conference on Information Management and Big Data, SIMBig 2018, held in Lima, Peru, in September 2018. The 34 papers presented were carefully reviewed and selected from 101 submissions. The papers address issues such as data mining, artificial intelligence, Natural Language Processing, information retrieval, machine learning, web mining.

**Re-Irradiation: New Frontiers** *Springer* This book, now in its second edition, provides a comprehensive overview of current re-irradiation strategies, with detailed discussion of re-irradiation methods, technical aspects, the role of combined therapy with anticancer drugs and hyperthermia, and normal tissue tolerance. In addition, disease specific chapters document recent clinical results and future research directions. All chapters from the first edition have been revised and updated to take account of the latest developments and research findings, including those from prospective studies. Due attention is paid to the exciting developments in the fields of proton irradiation and frameless image-guided ablative radiotherapy. The book documents fully how refined combined modality approaches and significant technical advances in radiation treatment planning and delivery have facilitated the re-irradiation of previously exposed volumes, allowing both palliative and curative approaches to be pursued at various disease sites. Professionals involved in radiation treatment planning and multimodal oncology treatment will find it to be an invaluable aid in understanding the benefits and limitations of re-irradiation and in designing prospective trials.

**The Anatomy Coloring Book** *Benjamin-Cummings Publishing Company* Includes bibliographical references and index

**Enumerative Combinatorics: Volume 1** *Cambridge University Press* "Richard Stanley's two-volume basic introduction to enumerative combinatorics has become the standard guide to the topic for students and experts alike. This thoroughly revised second edition of Volume 1 includes ten new sections and more than 300 new exercises, most with solutions, reflecting numerous new developments since the publication of the first edition in 1986. The author brings the coverage up to date and includes a wide variety of additional applications and examples, as well as updated and expanded chapter bibliographies. Many of the less difficult new exercises have no solutions so that they can more easily be assigned to students. The material on P-partitions has been rearranged and generalized; the treatment of permutation statistics has been greatly enlarged; and there are also new sections on q-analogues of permutations, hyperplane arrangements, the cd-index, promotion and evacuation and differential posets"-- UNESCO Science Report

**The race against time for smarter development** *UNESCO Publishing*

**Modelling, Simulation and Data Analysis in Acoustical Problems** *MDPI* Modelling and simulation in acoustics is currently gaining importance. In fact, with the development and improvement of innovative computational techniques and with the growing need for predictive models, an impressive boost has been observed in several research and application areas, such as noise control, indoor acoustics, and industrial applications. This led us to the proposal of a special issue about "Modelling, Simulation and Data Analysis in Acoustical Problems", as we believe in the importance of these topics in modern acoustics' studies. In total, 81 papers were submitted and 33 of them were published, with an acceptance rate of 37.5%. According to the number of papers submitted, it can be affirmed that this is a trending topic in the scientific and academic community and this special issue will try to provide a future reference for the research that will be developed in coming years.

**Career Development and Counseling Putting Theory and Research to Work** *John Wiley & Sons*

**Handbook of Applied Algorithms Solving Scientific, Engineering, and Practical Problems** *John Wiley & Sons* Discover the benefits of applying algorithms to solve scientific, engineering, and practical problems Providing a combination of theory, algorithms, and simulations, Handbook of Applied Algorithms presents an all-encompassing treatment of applying algorithms and discrete mathematics to practical problems in "hot" application areas, such as computational biology, computational chemistry, wireless networks, and computer vision. In eighteen self-contained chapters, this timely book explores: \* Localized algorithms that can be used in topology control for wireless ad-hoc or sensor networks \* Bioinformatics algorithms for analyzing data \* Clustering algorithms and identification of association rules in data mining \* Applications of combinatorial algorithms and graph theory in chemistry and molecular biology \* Optimizing the frequency planning of a GSM network using evolutionary algorithms \* Algorithmic solutions and advances achieved through game theory Complete with exercises for readers to measure their comprehension of the material presented, Handbook of Applied Algorithms is a much-needed resource

for researchers, practitioners, and students within computer science, life science, and engineering. Amiya Nayak, PhD, has over seventeen years of industrial experience and is Full Professor at the School of Information Technology and Engineering at the University of Ottawa, Canada. He is on the editorial board of several journals. Dr. Nayak's research interests are in the areas of fault tolerance, distributed systems/algorithms, and mobile ad-hoc networks. Ivan Stojmenović, PhD, is Professor at the University of Ottawa, Canada ([www.site.uottawa.ca/~ivan](http://www.site.uottawa.ca/~ivan)), and Chair Professor of Applied Computing at the University of Birmingham, United Kingdom. Dr. Stojmenović received the Royal Society Wolfson Research Merit Award. His current research interests are mostly in the design and analysis of algorithms for wireless ad-hoc and sensor networks. *SAS/ETS User's Guide Fluid Concepts and Creative Analogies Computer Models of the Fundamental Mechanisms of Thought* Hofstadter and his colleagues at The Fluid Analogies Research Group have developed computer models that help describe and explain human discovery, creation and analogical thought. The key issue of perception is investigated through the exploration of playful anagrams, number puzzles, word play and fanciful alphabetical styles, and the result is a survey of cognitive processes. This text presents the results. *Fuzzy Techniques for Decision Making 2018* MDPI Zadeh's fuzzy set theory incorporates the impreciseness of data and evaluations, by imputting the degrees by which each object belongs to a set. Its success fostered theories that codify the subjectivity, uncertainty, imprecision, or roughness of the evaluations. Their rationale is to produce new flexible methodologies in order to model a variety of concrete decision problems more realistically. This Special Issue garners contributions addressing novel tools, techniques and methodologies for decision making (inclusive of both individual and group, single- or multi-criteria decision making) in the context of these theories. It contains 38 research articles that contribute to a variety of setups that combine fuzziness, hesitancy, roughness, covering sets, and linguistic approaches. Their ranges vary from fundamental or technical to applied approaches. *NMR-Based Metabolomics Methods and Protocols Humana* This book provides broad coverage of nuclear magnetic resonance (NMR) spectroscopy-based methods and applications for the analysis of metabolites in a wide range of biological samples, from biofluids, cells, animal models, human, to plants and foods. The applications range from mechanistic understanding, biomarker discovery, environmental studies, and drug discovery to nutrition, while NMR methods include global, targeted, and isotope tracer-based techniques. Written for the highly successful *Methods in Molecular Biology* series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *NMR-Based Metabolomics: Methods and Protocols* serves as a wealth of information for beginners as well as advanced practitioners and also as stepping stones for further advances in the field of metabolomics. *Experience-based Learning How to Make the Community Your Classroom Biology 2e* Advances in Computer Science for Engineering and Education III Springer This book comprises high-quality refereed research papers presented at the Third International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2020), held in Kyiv, Ukraine, on 21-22 January 2020, organized jointly by National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", National Aviation University, and the International Research Association of Modern Education and Computer Science. The topics discussed in the book include state-of-the-art papers in computer science, artificial intelligence, engineering techniques, genetic coding systems, deep learning with its medical applications, and knowledge representation with its applications in education. It is an excellent source of references for researchers, graduate students, engineers, management practitioners, and undergraduate students interested in computer science and their applications in engineering and education. *Book of Abstracts of the 71st Annual Meeting of the European Federation of Animal Science Virtual Meeting, December 1 - 4, 2020* This Book of Abstracts is the main publication of the 71st Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems, Insects and Precision Livestock Farming.