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Construction Planning and Scheduling, Fourth Edition offers broad coverage of all major scheduling subjects. This comprehensive resource is designed for construction management, planning and scheduling. It follows a logical progression, introducing precedence diagramming early and following with chapters on activity durations, resource allocations, network schedules, and more. It reflects current trends in scheduling (short-interval scheduling, computer scheduling, linear scheduling etc.) and includes chapters on arrow diagramming and PERT. With an eye on application, it includes a unique discussion of contract provisions related to scheduling and incorporates a sample project throughout.

The g factor--general mental ability--is the major construct for understanding both individual differences and the average differences between groups (race and sex) in educational and occupational attainment. It is also germane to social issues of national importance. Jensen fully and clearly explains the psychometric, statistical, genetic, and physiological basis of g, as well as the major theoretical challenges to the concept. For decades a key construct in differential psychology, the g factor's significance for the brain sciences as well as for education, sociology, anthropology, evolutionary psychology, economics, and public policy is clearly evident in this, the most comprehensive treatment of g available.

An Introduction to Efficiency and Productivity AnalysisSpringer Science & Business Media

PREFACE Within the Florida Everglades, tree islands, which cover only a small percentofthis ecosystem, historically have provided essential habitat for a wide variety offerrestrial and amphibious plants, birds, and animals. These tree islands, however, have been one ofits least studied features. Because of their less flood tolerant vegetation, tree islands are one ofthe most sensitive components ofthe Everglades to changes in hydrology, and many tree islands have been lost during periods when water levels have been abnormally high or low. Their sensitivity to water level changes makes tree islands potentially one ofthe best and surest measures ofthe overall hydrologic health of the Everglades. Consequently, the maintenance of healthy, functioning tree islands and the restoration ofthose that have been lost will be an important performance measures that will be used tojudge the success ofthe Comprehensive Everglades Restoration Plan (CERP). A symposium, Tree Islands ofthe Everglades, was held on July 14 and 15, 1998 at Florida Atlantic University, Boca Raton, Florida. It was sponsored by Florida Center for Environmental Studies and the South Florida WaterManagement District. This was the first scientific meeting ever devoted to tree islands. The organizers of this symposium were Drs. Arnold van der Valk, Florida Center for Environmental Studies and Iowa State University, Fred Sklar, South Florida Water Management District, and Wiley Kitchens, United States Geological Survey.

"Eleven historians bring their knowledge and insights to bear on the long Braudelian sweep of Southeast Asian history. In doing so they seek both to debunk simplistic assumptions about fragile traditions and transformational modernities, and to identify real repeating patterns in Southeast Asia's past: clientelistic political structures, periodic tectonic and climatic disasters, ethnic occupational specializations, long cycles of economic globalization and deglobalization. Their contributions range across many centuries: from the Austronesian expansion to the Aceh tsunami, and from the Sanskrit cosmopolis to the Asian financial crisis. The book is inspired by, and dedicated to, Peter Boomgaard, a scholar whose work has embodied the Braudelian spirit in Southeast Asian historiography"--

For over two hundred years the domination of some countries by others has been intrinsic to international relations, with national economic and political strength viewed as essential to a nation's survival and global position. Mastering Space identifies the essential features of this "state-centredness" and suggests an optimistic alternative more in keeping with the contemporary post-Cold War climate. Drawing on recent geopolitical thinking, the authors claim that the dynamism of the international political economy has been obscured through excessive attention on the state as an unchanging actor. Dealing with such topical issues as Japan's rise to economic dominance and America's perceived decline, as well as the global impact of continued geographical change, the book discusses the role of geographical organization in the global political economy, and the impact of increasing economic globalisation and political fragmentation in future international relations. The authors identify the present time as crucial to the global political economy, and explore the possibilities of moving the world from mastering space to real reciprocity between peoples and places. John Agnew is a Professor of Geography at the Maxwell School of Citizenship and Public Affairs, Syracuse University. Stuart Corbridge is a lecturer in Geography at the University of Cambridge and a Fellow of Sidney Sussex College.

Readers learn to master the basics of effective programming as they work through Visual Basic 2015's latest features with the wealth of hands-on applications in this book's engaging real-world setting. PROGRAMMING WITH MICROSOFT VISUAL BASIC 2015, 7E by best-selling author Diane Zak offers an ideal introduction to programming with a dynamic visual presentation, step-by-step tutorials, and strategically placed activity boxes. New hands-on applications, timely examples, and practical exercises help you learn how to effectively plan and create interactive Visual Basic 2015 applications. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Softcover version of the second edition Hardcover. Incorporates a new author, Dr. Chris O'Donnell, who brings considerable expertise to the project in the area of performance measurement. Numerous topics are being added and more applications using real data, as well as exercises at the end of the chapters. Data sets, computer codes and software will be available for download from the web to accompany the volume.

This book is the outcome of the successful NATO Advanced Study Institute on Pattern Recognition Theory and Applications, held at St. Anne's College, Oxford, in April 1981., The aim of the meeting was to review the recent advances in the theory of pattern recognition and to assess its current and future practical potential. The theme of the Institute - the decision making aspects of pattern recognition with the emphasis on the novel hybrid approaches - and its scope - a high level tutorial coverage of pattern recognition methodologies counterpointed with contrib uted papers on advanced theoretical topics and applications - are faithfully reflected by the volume. The material is divided into five sections: 1. Methodology 2. Image Understanding and Interpretation 3. Medical Applications 4. Speech Processing and Other Applications 5. Panel Discussions. The first section covers a broad spectrum of pattern recognition methodologies, including geometric, statistical, fuzzy set, syntactic, graph-theoretic and hybrid approaches. Its cove,r age of hybrid methods places the volume in a unique position among existing books on pattern recognition. The second section provides an extensive treatment of the topical problem of image understanding from both the artificial intelligence and pattern recognition points of view. The two application sections demonstrate the usefulness of the novel methodologies in traditional pattern 'recognition application areas. They address the problems of hardware/software implementation and of algorithm robustness, flexibility and general reliability. The final section reports on a panel discussion held during the Institute.

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copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book's tradition of clear, thought-provoking instruction. Readers are provided once again with an instructive mix of mathematics, physics, statistics, and information theory. All the essential topics in information theory are covered in detail, including entropy, data compression, channel capacity, rate distortion, network information theory, and hypothesis testing. The authors provide readers with a solid understanding of the underlying theory and applications. Problem sets and a telegraphic summary at the end of each chapter further assist readers. The historical notes that follow each chapter recap the main points. The Second Edition features: * Chapters reorganized to improve teaching * 200 new problems * New material on source coding, portfolio theory, and feedback capacity * Updated references Now current and enhanced, the Second Edition of Elements of Information Theory remains the ideal textbook for upper-level undergraduate and graduate courses in electrical engineering, statistics, and telecommunications.

A self-contained and coherent account of probabilistic techniques, covering: distance measures, kernel rules, nearest neighbour rules, Vapnik-Chervonenkis theory, parametric classification, and feature extraction. Each chapter concludes with problems and exercises to further the readers understanding. Both research workers and graduate students will benefit from this wide-ranging and up-to-date account of a fast-moving field.

The fourth edition of Probability, Random Variables and Stochastic Processes has been updated significantly from the previous edition, and it now includes co-author S. Unnikrishna Pillai of Polytechnic University. The book is intended for a senior/graduate level course in probability and is aimed at students in electrical engineering, math, and physics departments. The authors' approach is to develop the subject of probability theory and stochastic processes as a deductive discipline and to illustrate the theory with basic applications of engineering interest. Approximately 1/3 of the text is new material--this material maintains the style and spirit of previous editions. In order to bridge the gap between concepts and applications, a number of additional examples have been added for further clarity, as well as several new topics. I have physical scars from past surgeries, however, I have emotional scars as well. They were buried deep inside (hidden). It wasn't until my mother died was I able to "catch my breath" and to make sense of or process the emotional pain I had endured due to her prescription drug addiction, resulting in my own addictions.

??E-Commerce Strategy: Text and Cases provides the fundamental literature required for graduate students and practitioners to understand electronic commerce. Each chapter provides clearly designed learning objectives and review questions to highlight the major topics and goals. This book covers many of the new innovations and technologies that have been established for e-commerce site development. Unlike similar books, topics such as e-channel adoption, factors affecting e-commerce adoption, and strategy design are reviewed in greater depth. Additionally, the book examines areas not normally covered like open source, online research, and peer-to-peer systems. E-Commerce Strategy: Text and Cases is divided into two parts. Part 1 examines the evolution of e-commerce, analyzes different sectors such as B2B and m-Commerce, and explores the challenges they face. Case studies of well known companies reinforce the concepts learned to demonstrate both successes and failures in the field. Part 2 deals with developing strategies in e-Commerce and looks at future trends including Web 2.0. Overall, the useful guidelines provided should prove valuable to students and researchers in the field.

The international conference Intelligent Information Processing and Web Mining IIS:IIPWM'05, organized in Gdańsk-Sobieszewo on 13–16th June, 2005, was a continuation of a long tradition of conferences on applications of Artificial Intelligence (AI) in Information Systems (IS), organized by the Institute of Computer Science of Polish Academy of Sciences in cooperation with other scientific and business institutions. The Institute itself is deeply engaged in research both in AI and IS and many scientists view it as a leading institution both in fundamental and - plied research in these areas in Poland. The originators of this conference series, Prof. M. Dąbrowski and Dr. M. Michalewicz had in 1992 a long-term goal of bringing together scientists and industry of different branches from Poland and abroad to achieve a creative synthesis. One can say that their dream has come to reality. Scientists from 7ve continents made their submissions to this conference. A brief look at the affiliations makes international cooperation visible. The research papers have either a motivation in create applications or are o?-springs of some practical requests. This volume presents the best papers carefully chosen from a large set of submissions (about 45%). At this point we would like to express our thanks to the members of Programme Committee for their excellent job. Also we are thankful to the organizers of the special sessions accompanying this conference: Jan Komorowski, Adam Przepiórkowski, Zbigniew W.

Teaching Secondary and Middle School Mathematics combines the latest developments in research, standards, and technology with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics today. In the fully revised fifth edition, scholar and mathematics educator Daniel Brahier invites teachers to investigate the nature of the mathematics curriculum and reflect on research-based "best practices" as they define and sharpen their own personal teaching styles. The fifth edition has been updated and expanded with a particular emphasis on the continued impact of the Common Core State Standards for Mathematics and NCTM's just-released Principles to Actions, as well as increased attention to teaching with technology, classroom management, and differentiated instruction. Features include: A full new Chapter 7 on selection and use of specific tools and technology combined with "Spotlight on Technology" features throughout clearly illustrate the practical aspects of how technology can be used for teaching or professional development. Foundational Chapters 1 and 2 on the practices and principles of mathematics education have been revised to build directly on Common Core State Standards for Mathematics and Principles to Actions, with additional references to both documents throughout all chapters. A new Chapter 4 focuses on the use of standards in writing objectives and organizing lesson plan resources while an updated Chapter 5 details each step of the lesson planning process. A fully revised Chapter 12 provides new information on teaching diverse populations and outlines specific details and suggestions for classroom management for mathematics teachers. Classroom Dialogues" features draws on the author's 35-year experience as an educator to present real-world teacher-student conversations about specific mathematical problems or ideas "How Would You React?" features prepares future teachers for real-life scenarios by engaging them in common classroom situations and offering tried-and-true solutions. With more than 60 practical, classroom-tested teaching ideas, sample lesson and activities, Teaching Secondary and Middle School Mathematics combines the best of theory and practice to provide clear descriptions of what it takes to be an effective teacher of mathematics.

This guide provides a wide-ranging selection of illuminating, informative and entertaining problems, together with their solution. Topics include modelling and many applications of probability theory.

When dealing with the design or with the application of any technical system, which is not quite simple and trivial, one has to face to the problem to determine the allowable deviations of the system functions and the optimal vector of system parameter tolerances. The need for the solution of this problem is stimulated with various serious economic and maintenance aspects, between them the tendency to reach the minimal production cost, the maximal system operation reliability are the most frequent. Suppose that we are dealing with an system S, consisting of N components represented by the system parameters x_i $i = 1, 2, \dots, N$, which are arranged in certain structure so, that the K,

system functions $F_k, k = 1, 2, \dots, IG$, expressing the considered system properties, fulfil the condition $F = FO \cup AF$, where $F = \{F_k\}$ is the set of the actual system functions, $FO = \{FO_k\}$ is the set of the nominal system functions and $AF = \{AF_k\}$ is the set of the actual deviations. The set F depends besides the system structure also on the vector $X = [X_i]_N$ of the system parameters. Suppose, that the system structure is invariant.

IMAGE TRACKS AT HALIFAX by L.B. Felsen All living kind much effort spend Some model modes, some model rays, To cope with their environment Some feel that spectra all portrays. Some use their eyes, some use their nose Then there are those who with despatch, To sense where other things repose. Take refuge in the ocean wedge. For one group, nothing's more profound Than to explore the world with sound. If things get messy, randomize. These audio diagnosticians What's partly smooth, determinize. You ponder, is it this or that? Go by the name of acousticians. And wish you were a lowly bat They regularly meet to check Whether their sonogram's on track. The meeting's hosts did treat us well. With images stored in their packs, They let the climate cast its spell. This year they came to Halifax. No weath'ry hope was placed in vain. There they combined with ocean types We were exposed to wind and rain, And each could hear the other's gripes. We glimpsed blue sky through clouds dispersed. A meeting naturally does start But rainy sequence was reversed: Reviewing present state of art. The ocean types would like it wet What we found out is where it's at: Yet they got stuck with sun instead. We cannot hope to match the bat Each confrence has the same refrain: Computer printouts by the reams It has been fun to meet again.

This book constitutes the Proceedings of the conference 'Chemical Structures: The International Language of Chemistry' which was held at Leeuwenhorst Congress Centre, Noordwijkerhout in the Netherlands, between May 31 and June 4, 1987. The conference was jointly sponsored by the Chemical Structure Association, the American Chemical Society Division of Chemical Information, and the Chemical Information Groups of the Royal Society of Chemistry and the German Chemical Society. The purpose of the conference was to bring together experts and an international professional audience to discuss and to further basic and applied research and development in the processing, storage, retrieval and use of chemical structures, to focus international attention on the importance of chemical information and the vital research being carried out in chemical information science and to foster co-operation among major chemical information organisations in North America and Europe. Subjects covered included integrated in-house databases, substructure searching methodology, spectral databanks, new technologies (microcomputers, CD-ROM, parallel processing and expert systems) and chemical reactions. The keynote address was given by Mike Lynch of the University of Sheffield. In this, the opening chapter of the book, Mike discusses progress made in chemical information science in the last fifteen years and describes his own approach to research. In a plenary session, Myra Williams of Merck, Sharp and Dohme considered future trends from the point of view of the information manager and strategic planner in industry. She emphasises the need for integration, open architecture and a uniform user interface.

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Some prominent additions are given below: 1. Variance of Degenerate Random Variable 2. Approximate Expression for Expectation and Variance 3. Lyapounov's Inequality 4. Holder's Inequality 5. Minkowski's Inequality 6. Double Expectation Rule or Double-E Rule and many others

This book is both a reference for engineers and scientists and a teaching resource, featuring tutorial chapters and research papers on feature extraction. Until now there has been insufficient consideration of feature selection algorithms, no unified presentation of leading methods, and no systematic comparisons.

Perfected over three editions and more than forty years, this field- and classroom-tested reference: * Uses the method of maximum likelihood to a large extent to ensure reasonable, and in some cases optimal procedures. * Treats all the basic and important topics in multivariate statistics. * Adds two new chapters, along with a number of new sections. * Provides the most methodical, up-to-date information on MV statistics available.

GSV's aspirational vision for how to address society's greatest challenge...ensuring that everyone has equal opportunity to participate in the future.

This book is an edited selection of the papers presented at the International Workshop on VLSI for Artificial Intelligence and Neural Networks which was held at the University of Oxford in September 1990. Our thanks go to all the contributors and especially to the programme committee for all their hard work. Thanks are also due to the ACM-SIGARCH, the IEEE Computer Society, and the IEE for publicizing the event and to the University of Oxford and SUNY-Binghamton for their active support. We are particularly grateful to Anna Morris, Maureen Doherty and Laura Duffy for coping with the administrative problems. Jose Delgado-Frias Will Moore April 1991 vii PROLOGUE Artificial intelligence and neural network algorithms/computing have increased in complexity as well as in the number of applications. This in tum has posed a tremendous need for a larger computational power than can be provided by conventional scalar processors which are oriented towards numeric and data manipulations. Due to the artificial intelligence requirements (symbolic manipulation, knowledge representation, non-deterministic computations and dynamic resource allocation) and neural network computing approach (non-programming and learning), a different set of constraints and demands are imposed on the computer architectures for these applications.

Bond Verbal Reasoning 11+ Multiple-choice Test Papers Pack 1 are realistic 11+ timed test papers, with full answers included. Each mock test paper enables children to simulate the test, developing critical exam techniques of following instructions, reading the question carefully and time management that will build confidence ahead of the test.

This text offers a sound and self-contained introduction to classical statistical theory. The material is suitable for students who have

successfully completed a single year's course in calculus, and no prior knowledge of statistics or probability is assumed. Practical examples and problems are included.

SOON TO BE THE SUBJECT OF A MAJOR TV SERIES The only full-length study of Charles Sobhraj - one of the world's greatest conmen, and notorious serial killers. Charles Sobhraj remains one of the world's great con men, and as a serial killer, the story of his life and capture endures as legend. Born in Vietnam to a Vietnamese mother and Indian father, Sobhraj grew up with a fluid sense of identity, moving to France before being imprisoned and stripped of his multiple nationalities. Driven to floating from country to country, continent to continent, he became the consummate con artist, stealing passports, smuggling drugs and guns across Asia, busting out of prisons and robbing wealthy associates. But as his situation grew more perilous he turned to murder, preying on Western tourists dropping out across the 1970s hippie route, leaving a trail of dead bodies and gruesome crime scenes in his wake. First published in 1979, but updated here to include new material, *On the Trail of the Serpent* draws its readers into the story of Sobhraj's life as told exclusively to journalists Richard Neville and Julie Clarke. Blurring the boundaries between true crime and novelisation, this remains the definitive book about Sobhraj – a riveting tale of sex, drugs, adventure and murder.

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