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ASX2FG - TRISTIAN TAYLOR

Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer.

This fifth edition of International Law: A South African Perspective is now titled Dugard's International Law: A South African Perspective, in recognition of the fact that this work is a continuation of the earlier editions written by John Dugard. The substance of the work has undergone major changes to take account of new developments both on the international legal scene and in South Africa.

Dugard's International Law: A South African Perspective presents a South African perspective of international law. The basic principles of international law are described and examined with reference to the principal sources of international law. This examination, however, takes place within the context of South African law. South African state practice, judicial decisions and legislation on international law receive equal treatment with international law as it is practised and taught abroad. The present work is designed to assist judicial officers and practitioners, educate students, and guide diplomats in the intricacies of international law both at home in South Africa and abroad.

Excerpt: ...tribe. He had faculties. He had also various idiosyncrasies. He was undeniably the best hunter and trapper and trainer of dogs to sledge, as well as the most expert upon snowshoes of all the Indians living upon the point, and he was, furthermore, one of the dirtiest of them and the biggest drunkard whenever opportunity afforded. Fortunately for him and for his squaw, Bigbeam, as she had been facetiously named by an agent of the company, the opportunities for getting drunk were rare, for the company is conservative in the distribution of that which makes bad hunters. Given an abundance of firewater and tobacco, Red Dog was the happiest Indian between the northern boundary of the United States and Lake Gary; deprived of them both he hunted vigorously, thinking all the while of the coming hour when, after a long journey and much travail, he should be in what was his idea of heaven again. To-day, though, the rifle bought from the company stood idle beside the ridge-pole, the sledge dogs snarled and fought upon the snow outside, and Bigbeam, squat and broad as became her name, looked askance at her lord as she prepared the moose meat, uncertain of his temper, for his face was cloudy. Red Dog was, in fact, perplexed, and was planning deeply. Good reason was there for Red Dog's thought. Events of the immediate

future were of moment to him and all his fellows, among whom, though no chief was formally acknowledged, he was recognized as leader; for had he not at one time been with the company as a hired hunter? Had he not once gone with a fur-carrying party even to Hudson's Bay, and thence to the far south and even to Quebec? And did he not know the ways of the company, and could not he talk a French patois which enabled him to be understood at the stations? Now, as fitting representative of himself and of his clan, a great responsibility had come upon him, and he was lost in as anxious thought as could come to a biped of his quality. Like a more or less...

The core of this paper is a general set of variational principles for the problems of computing marginal probabilities and modes, applicable to multivariate statistical models in the exponential family.

Based on the premise that when students engage in an activity instead of simply reading about it, they understand it better, this book offers 29 hands-on, active learning exercises for use in research methods courses in the social sciences. The activities were created by instructors throughout the United States and tested for effectiveness in their classrooms. They include group activities and solo activities, presented in very accessible language for students. Each exercise is directly related to a concept of research methods and aims to help students become better researchers.

Highly effective thinking is an art that engineers and scientists can be taught to develop. By presenting actual experiences and analyzing them as they are described, the author conveys the developmental thought processes employed and shows a style of thinking that leads to successful results is something that can be learned. Along with spectacular successes, the author also conveys how failures contributed to shaping the thought processes. Provides the reader with a style of thinking that will enhance a

person's ability to function as a problem-solver of complex technical issues. Consists of a collection of stories about the author's participation in significant discoveries, relating how those discoveries came about and, most importantly, provides analysis about the thought processes and reasoning that took place as the author and his associates progressed through engineering problems.

Classified list with author and title index.

This book is a simple, easy-to-read guide to debunking health scares and scams before you get hurt.

This exciting new edition of a popular text is an important resource for any education professional interested in investigating learning and teaching. Building on the success of *Action Research in the Classroom*, the authors have revised, updated and extended this book to include examples from further and higher education.

'Official SQA Past Papers' provide perfect exam preparation. As well as delivering at least three years of actual past papers - including the 2008 exam - all papers are accompanied by examiner-approved answers to show students how to write the best responses for the most marks.

Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. *Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering* includes selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2007) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

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

Used alongside the students' text, *Higher National Engineering 2nd edition*, this pack offers a complete suite of lecturer resource material and photocopiable handouts for the compulsory core units of the 2003 BTEC Higher Nationals in Engineering. Full coverage is given of the common core units for HNC/D (units 1 - 3) for all pathways, as well as the two different Engineering Principles units (unit 5) for mechanical and electrical/electronic engineering, and the additional unit required at HND for these pathways (Engineering Design - unit 6). The authors provide all the resources needed by a busy lecturer, as well as a bank of student-centred practical work and revision material, which will enable students to gain the skills, knowledge and understanding they require. This pack will save a course team many hours' work preparing handouts and assignments, and is freely photocopiable within the purchasing institution. The pack includes: * Exercises to support and develop work in the accompanying student text * Planned projects which will enable students to display a wide range of skills and use their own initiative * Reference material for use as handouts * Background on running the new HNC/HND courses * Tutor's notes supporting activities in the students' book and resource pack * All the essential material for running a course in the 2003 Higher National Engineering qualification from Edexcel * Full cov-

erage of the compulsory core units for both Certificate and Diploma * Freely photocopiable within the purchasing institution, this pack will save a course team many hours' work preparing handouts and assignments

TAMC 2006 was the third conference in the series. The previous two meetings were held May 17-19, 2004 in Beijing, and May 17-20, 2005 in Kunming

About the Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

"Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 600 problems and 400 worked answers. The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"-- Accessible, practical and concise, this revised edition expertly tackles the practical problems which writers face when they attempt to transfer the rich data experience of their real world research into a textual product. New attention is paid to the crucial issues of the nature and use of visual data, personal narrative, core and periphery data, and data reconstruction and fictionalization. Sensitive issues dealing with the appropriate use of identity in research settings are clearly discussed, while techniques for avoiding reductive judgements are presented and critically discussed. By making the workings of written study transparent, the book demonstrates how to manage subjectivity and achieve scientific rigour in the qualitative research process. This book provides accessible advice for novice researchers on where to begin and how to proceed. But much more than a simple manual, it also guides the more experience researcher through the social, cultural and political complexities involved in every step of the way. It is an essential tool for students in all disciplines that engage in qualitative research, including sociology, applied linguistics, management, sport science, health studies and education.

In simple and non-technical terms, this text illustrates a wide range of techniques and approaches used in social research projects.

All qualitative researchers sample, yet methods of sampling and choosing cases have received relatively little attention compared to other qualitative methods. This innovative book critically evaluates widely used sampling strategies, identifying key theoretical assumptions and considering how empirical and theoretical claims are made from these diverse methods. Nick Emmel presents a groundbreaking reworking of sampling and choosing cases in qualitative research. Drawing on international case studies from across the social sciences he shows how ideas drive choices, how cases are used to work out the relation between ideas and evidence, and why it is not the size of a sample that matters, it is how cases are used to interpret and explain that counts. Fresh, dynamic and timely, this book is essential reading for researchers and postgraduate students engaging with sampling and realism in qualitative research.

Written for advanced undergraduate students, postgraduate students planning theses and dissertations and other early career researchers, *Designing and Managing Your Research Project* helps you successfully plan and complete your research project by showing the key skills that you will need. The book covers: " choosing research methods " developing research objectives " writing proposals " literature reviews " getting ethics approval " seeking funding " managing a project " software skills " working with colleagues and supervisors " communicating research findings " writing reports, theses and journal articles " careers in research. *Designing and Managing Your Research Project* includes lots of examples, case studies and practical exercises to help you learn the research skills you will need and also to help you complete crucial project tasks. A key feature is its user-friendly guidance on planning projects and accessing information from the Internet.

The first edition of *The Action Research Dissertation: A Guide for Students and Faculty* was a first-of-its-kind reference, distilling the authors' decades of action research experience into a handy guide for graduate students. The Second Edition continues to provide an accessible roadmap that honors the complexity of action research, while providing an overview of how action research is defined, its traditions and history, and the rationale for using it. Authors Kathryn Herr and Gary L. Anderson demonstrate that ac-

tion research is not only appropriate for a dissertation, but also is a deeply rewarding experience for both the researcher and participants. This practical book demonstrates how action research dissertations are different from more traditional dissertations and prepares students and their committees for the unique dilemmas they may face, such as validity, positionality, design, write-up, ethics, and dissertation defense.

All researchers want to produce interesting and influential theories. A key step in all theory development is formulating innovative research questions that will result in interesting and significant research. Traditional textbooks on research methods tend to ignore, or gloss over, actual ways of constructing research questions. In this text, Alvesson and Sandberg develop a problematization methodology for identifying and challenging the assumptions underlying existing theories and for generating research questions that can lead to more interesting and influential theories, using examples from across the social sciences. Established methods of generating research questions in the social sciences tend to focus on 'gap-spotting', which means that existing literature remains largely unchallenged. The authors show the dangers of conventional approaches, providing detailed ideas for how one can work through such problems and formulate novel research questions that challenge existing theories and produce more imaginative empirical studies. *Constructing Research Questions* is essential reading for any researcher looking to formulate research questions that are interesting and novel.

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

The International Colloquium on Automata, Languages and Programming (ICALP) is an annual conference series sponsored by the European Association for Theoretical Computer Science (EATCS). It is intended to cover all important areas of theoretical computer science, such as: computability, automata, formal languages, term rewriting, analysis of algorithms, computational geometry, computational complexity, symbolic and algebraic computation, cryptography, data types and data structures, theory of data bases and knowledge bases, semantics of programming languages, program specification, transformation and verification, foundations of logic programming, theory of logical design and layout, parallel and distributed computation, theory of concurrency, and theory of robotics. This volume contains the proceedings of ICALP 93, held at Lund University, Sweden, in July 1993. It includes five invited papers and 51 contributed papers selected from 151 submissions.

Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.

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.

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.

Evaluation researchers are tasked with providing the evidence to guide programme building and to assess its outcomes. As such, they labour under the highest expectations - bringing independence and objectivity to policy making. They face huge challenges, given the complexity of modern interventions and the politicised backdrop to all of their investigations. They have responded with a huge portfolio of research techniques and, through their professional associations, have set up schemes to establish standards for evaluative inquiry and to accredit evaluation practitioners. A big question remains. Has this monumental effort produced a progressive, cumulative and authoritative body of knowledge that we might think of as evaluation science? This is the question addressed by Ray Pawson in this sequel to *Realistic Evaluation and Evidence-based Policy*. In answer, he provides a detailed blueprint for an evaluation science based on realist princi-

ples.

The study of directed graphs (digraphs) has developed enormously over recent decades, yet the results are rather scattered across the journal literature. This is the first book to present a unified and comprehensive survey of the subject. In addition to covering the theoretical aspects, the authors discuss a large number of applications and their generalizations to topics such as the traveling salesman problem, project scheduling, genetics, network connectivity, and sparse matrices. Numerous exercises are included. For all graduate students, researchers and professionals interested in graph theory and its applications, this book will be essential reading.

This book constitutes the thoroughly refereed post-conference proceedings of the workshops held at the 10th International Conference on Web Engineering, ICWE 2010, in Vienna, Austria, in July 2010. The 60 revised full papers presented were carefully re-

viewed and selected from over 100 submissions made to 9 international workshops and held in cooperation with the ICWE 2010 main conference. Those 9 workshops were selected from 16 proposals and encompassed: MDWE 2010, the 6th model-driven Web engineering workshop; QWE 2010, the first international workshop on quality in Web engineering; SWIM 2010, the second international workshop on semantic Web information management; SWEng 2010, the first international workshop on service Web engineering; ESW 2010, the first workshop on engineering soa and the Web; ComposableWeb 2010, the second international workshop on lightweight composition on the Web; EC 2010, the first international workshop on enterprise crowdsourcing; TouchTheWeb 2010, the first international workshop on Web-enabled objects; and WEBTOUR 2010, the first international workshop on Web engineering and tourism.