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United States (with CD) Mixed Surfactant Systems,
Second Edition Quantum Computation and Quantum
Information Finite Difference Methods, Theory and
Applications Slaying the Sky Dragon Stochastic
Geometry for Wireless Networks Letters to a Young
Teacher Elementary Statistics Finite Element
Procedures Statistics A Level Mathematics for OCR A
Student Book 1 (AS/Year 1) The History of the
Standard Oil Company Breastfeeding and Human
Lactation Calculus for Business, Economics, Life
Sciences, and Social Sciences Field Book for
Describing and Sampling Soils Iterative Learning
Control Supply Chain Management Stochastic
Geometry Analysis of Cellular Networks Behavior Trees

in Robotics and AI

Handbook on Marine Environment Protection

Information Technology Outsourcing

Easing the transition from GCSE to AS level, this textbook meets the 2004 Edexcel specifications and provides numerous worked examples and solutions to aid understanding of key concepts.

101 Ready-to-Use Excel Formulas

This new volume in the "Advances in Management Information Systems" series presents the latest cutting-edge knowledge in IT outsourcing. As part of the growing business trend to outsourcing various operations, IT outsourcing both determines the governance of a vital organizational function and influences the processes of exploitation and exploration in all other functions of an enterprise. In keeping with the mission of the "AMIS" series, the editors of this volume have framed the domain of research and practice broadly. "Information Technology Outsourcing" provides leading edge research on both the variety of decisions regarding the outsourcing of IS services and the management of the relationship with service suppliers.

Family, Bullying and Cyberbullying

Over the past decade, system-on-chip (SoC) designs have evolved to address the ever increasing complexity of applications, fueled by the era of digital convergence. Improvements in process technology have effectively shrunk board-level components so they can be integrated on a single chip. New on-chip communication architectures have been designed to support all inter-component communication in a SoC design. These communication architecture fabrics have a critical impact on the power consumption, performance, cost and design cycle time of modern SoC designs. As application complexity strains the communication backbone of SoC designs, academic and industrial R&D efforts and dollars are increasingly focused on communication architecture design. On-Chip Communication Architectures is a comprehensive reference on concepts, research and trends in on-chip communication architecture design. It will provide readers with a comprehensive survey, not available elsewhere, of all current standards for on-chip communication architectures. A definitive guide to on-chip communication architectures, explaining key concepts, surveying research efforts and predicting future trends Detailed analysis of all popular standards for on-chip communication architectures Comprehensive survey of all research on communication architectures, covering a wide range of topics relevant to this area, spanning the past several years, and up to date with the most current research efforts Future trends that will have a significant impact on research and design of communication architectures over the next several years

Core Mathematics C3

This book constitutes the proceedings of the 4th International Conference on Mathematical Software, ICMS 2014, held in Seoul, South Korea, in August 2014. The 108 papers included in this volume were carefully reviewed and selected from 150 submissions. The papers are organized in topical sections named: invited; exploration; group; coding; topology; algebraic; geometry; surfaces; reasoning; special; Groebner; triangular; parametric; interfaces and general.

Core Mathematics 2

The Dynamics of Persuasion has been a staple resource for teaching persuasion for nearly two decades. Author Richard M. Perloff speaks to students in a style that is engaging and informational, explaining key theories and research as well as providing timely and relevant examples. The companion website includes materials for both students and instructors and expanding the pedagogical utilities. The sixth edition includes: updated theoretical and applied research in a variety of areas, including framing, inoculation, and self-affirmation; new studies of health campaigns; expanded coverage of social media marketing; enhanced discussion of the Elaboration Likelihood Model in light of continued research and new applications to everyday persuasion. The fundamentals of the book – emphasis on theory, clear-cut explanation of findings, in-depth discussion of

persuasion processes and effects, and easy-to-follow real-world applications – continue in the sixth edition.

The ITK Software Guide

Design Recommendations for Intelligent Tutoring Systems explores the impact of intelligent tutoring system design on education and training. Specifically, this volume examines “Instructional Management” techniques, strategies and tactics, and identifies best practices, emerging concepts and future needs to promote efficient and effective adaptive tutoring solutions. Design recommendations include current, projected, and emerging capabilities within the Generalized Intelligent Framework for Tutoring (GIFT), an open source, modular, service-oriented architecture developed to promote simplified authoring, reuse, standardization, automated instructional management and analysis of tutoring technologies.

The Beginning and the End

This handbook is the first of its kind to provide a clear, accessible, and comprehensive introduction to the most important scientific and management topics in marine environmental protection. Leading experts discuss the latest perspectives and best practices in the field with a particular focus on the functioning of marine ecosystems, natural processes, and anthropogenic pressures. The book familiarizes readers with the intricacies and challenges of managing coasts and oceans more sustainably, and

guides them through the maze of concepts and strategies, laws and policies, and the various actors that define our ability to manage marine activities. Providing valuable thematic insights into marine management to inspire thoughtful application and further study, it is essential reading for marine environmental scientists, policy-makers, lawyers, practitioners and anyone interested in the field.

Sustainable Directions in Tourism

Easing the transition from GCSE to AS level, this textbook meets the 2004 Edexcel specifications and provides numerous worked examples and solutions to aid understanding of key concepts.

Alexander of Yugoslavia

Mathematical Software -- ICMS 2014

“Personalised Nutrition” represents any initiative that attempts to provide tailor-made healthy eating advice based on the nutritional needs of each individual, as these are dictated by the individual’s behaviour, phenotype and/or genotype, and their interactions. This Special Issue of Nutrients is dedicated to the development, implementation and assessment of the effectiveness of evidence-based “Personalised Nutrition” strategies. In this regard, a selection of reviews and original research manuscripts will bring together the latest evidence on how lifestyle habits, physiology, nutraceuticals, gut microbiome and

genetics can be integrated into nutritional solutions, specific to the needs of each individual, for maintaining health and preventing diseases.

Design Recommendations for Intelligent Tutoring Systems

This volume constitutes the refereed post-conference proceedings of the International Conference on Theoretical Computer Science and Discrete Mathematics, held in Krishnankoil, India, in December 2016. The 57 revised full papers were carefully reviewed and selected from 210 submissions. The papers cover a broad range of topics such as line graphs and its generalizations, large graphs of given degree and diameter, graphoidal covers, adjacency spectrum, distance spectrum, b-coloring, separation dimension of graphs and hypergraphs, domination in graphs, graph labeling problems, subsequences of words and Parike matrices, lambda-design conjecture, graph algorithms and interference model for wireless sensor networks.

Advances in Cryptology - EUROCRYPT 2016

Analyse wireless network performance and improve design choices for future architectures and protocols with this rigorous introduction to stochastic geometry.

Edexcel AS Physics

On-Chip Communication Architectures

Theoretical Computer Science and Discrete Mathematics

A syllabus-specific textbook providing worked examples, exam-level questions and many practice exercises, in accordance to the new Edexcel AS and Advanced GCE specification.

The Dynamics of Persuasion

The author shared personal reflections, anecdotes, wisdom, and guidance in his letters to Francesca, a first-year teacher, as he attempted to help her deal with the challenges she faced and encouraged her to do her best.

Personalized Nutrition

Completely revised and expanded throughout, *Mixed Surfactant Systems, Second Edition* surveys the latest results, newest experimental perspectives, and theoretical investigations of properties, behavior, and techniques applicable to mixed surfactant systems. This important book elucidates core theoretical notions while summarizing results of cutting-edge studies in nanoscale phase separation at monolayers of mixed amphiphiles, nanocapsule preparation through mixtures of cationic and anionic polymer amphiphiles, and the photodegradation of mixed surfactant systems by titanium dioxide. The book

provides new sections on topics including: Diffusion of mixed micelles Mixed micelles of fluorinated and conventional surfactants Sponge-like vesicles of mixed surfactants Liquid crystals of mixed surfactants Mixtures of surfactants and polymers Photolysis of mixed surfactants Reflecting the abundance of current and emerging applications in the field, Mixed Surfactant Systems, Second Edition compiles chapters written by world-renowned leaders in industry for an up-to-date scientific account of the dynamics of mixed surfactant systems, including physicochemical properties and behavior of surfactant mixtures in detergency and surfactant precipitation.

Orbital Mechanics for Engineering Students

This monograph introduces recent developments in formation control of distributed-agent systems. Eschewing the traditional concern with the dynamic characteristics of individual agents, the book proposes a treatment that studies the formation control problem in terms of interactions among agents including factors such as sensing topology, communication and actuation topologies, and computations. Keeping pace with recent technological advancements in control, communications, sensing and computation that have begun to bring the applications of distributed-systems theory out of the industrial sphere and into that of day-to-day life, this monograph provides distributed control algorithms for a group of agents that may behave together. Unlike traditional control laws that usually require

measurements with respect to a global coordinate frame and communications between a centralized operation center and agents, this book provides control laws that require only relative measurements and communications between agents without interaction with a centralized operator. Since the control algorithms presented in this book do not require any global sensing and any information exchanges with a centralized operation center, they can be realized in a fully distributed way, which significantly reduces the operation and implementation costs of a group of agents. Formation Control will give both students and researchers interested in pursuing this field a good grounding on which to base their work.

Seven Concurrency Models in Seven Weeks

'Supply Chain Management' illustrates the key drivers of good supply chain management in order to help students understand what creates a competitive advantage. It also provides strong coverage of analytic skills so that students can gauge the effectiveness of the techniques described.

Formation Control

A Data-Based Assessment of Research-Doctorate Programs in the United States (with CD)

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A Data-Based Assessment of Research-Doctorate Programs in the United States provides an unparalleled dataset that can be used to assess the quality and effectiveness of doctoral programs based on measures important to faculty, students, administrators, funders, and other stakeholders. The data, collected for the 2005-2006 academic year from more than 5,000 doctoral programs at 212 universities, covers 62 fields. Included for each program are such characteristics as faculty publications, grants, and awards; student GRE scores, financial support, and employment outcomes; and program size, time to degree, and faculty composition. Measures of faculty and student diversity are also included. The book features analysis of selected findings across six broad fields: agricultural sciences, biological and health sciences, engineering, physical and mathematical sciences, social and behavioral sciences, and humanities, as well as a discussion of trends in doctoral education since the last assessment in 1995, and suggested uses of the data . It also includes a detailed explanation of the methodology used to collect data and calculate ranges of illustrative rankings. Included with the book is a comprehensive CD-ROM with a data table in Microsoft Excel. In addition to data on the characteristics of individual programs, the data table contains illustrative ranges of rankings for each program, as well as ranges of rankings for three dimensions of program quality: (1) research activity, (2) student support and outcomes, and (3) diversity of the academic environment. As an aid to users, the data table is offered with demonstrations of some Microsoft Excel features that may enhance the

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usability of the spreadsheet, such as hiding and unhiding columns, copying and pasting columns to a new worksheet, and filtering and sorting data. Also provided with the data table are a set of scenarios that show how typical users may want to extract data from the spreadsheet. PhDs.org, an independent website not affiliated with the National Research Council, incorporated data from the research-doctorate assessment into its Graduate School Guide. Users of the Guide can choose the weights assigned to the program characteristics measured by the National Research Council and others, and rank graduate programs according to their own priorities.

Mixed Surfactant Systems, Second Edition

New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision. Written for the OCR AS/A Level Mathematics specifications for first teaching from 2017, this print Student Book covers the content for AS and the first year of A Level. It balances accessible exposition with a wealth of worked examples, exercises and opportunities to test and consolidate learning, providing a clear and structured pathway for progressing through the course. It is underpinned by a strong pedagogical approach, with an emphasis on skills development and the synoptic nature of the course. Includes answers to aid independent study.

Quantum Computation and Quantum Information

Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discussions of coordinate systems, new discussion on perturbations and quaternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

Finite Difference Methods, Theory and Applications

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Mr. Spreadsheet has done it again with 101 easy-to-apply Excel formulas 101 Ready-to-Use Excel Formulas is filled with the most commonly-used, real-world Excel formulas that can be repurposed and put into action, saving you time and increasing your productivity. Each segment of this book outlines a common business or analysis problem that needs to be solved and provides the actual Excel formulas to solve the problem—along with detailed explanation of how the formulas work. Written in a user-friendly style that relies on a tips and tricks approach, the book details how to perform everyday Excel tasks with confidence. 101 Ready-to-Use Excel Formulas is sure to become your well-thumbed reference to solve your workplace problems. The recipes in the book are structured to first present the problem, then provide the formula solution, and finally show how it works so that it can be customized to fit your needs. The companion website to the book allows readers to easily test the formulas and provides visual confirmation of the concepts presented. Teaches you how to implement the required Excel formula Explains and details how the formulas work Lets you reuse or customize the given formula to address your particular needs Helps you make the formulas a regular part of your new, more efficient workflow Specific real-world scenarios are used to demonstrate how to most effectively apply Excel and its powerful formulas to complete tasks faster and with greater accuracy than ever before. Now you can save time, automate, and be more efficient and productive with 101 Ready-to-Use Excel Formulas.

Slaying the Sky Dragon

Compelling, easy-to-read, and written by internationally recognized experts in applied science, this volume destroys the human-caused global warming theory and clears the innocent carbon dioxide molecule of all the heinous crimes it is accused of.

Stochastic Geometry for Wireless Networks

Despite the significant decrease in bullying that has been reported in many countries during the last two decades, bullying continues to be a significant problem among young people. Given the increase of internet use among youth, researchers have started to pay attention to cyberspace, understanding that it may be a fertile ground for bullying behaviors, specifically, what is known as cyberbullying. "Family, Bullying and Cyberbullying" examines the association of several family variables with bullying in offline and online environments during childhood and adolescence. Contributors from the Americas, Canada, Asia, and Europe offer cutting-edge research on family dynamics, bystander behaviors, parents' and educators' perceptions, and bullying and cyberbullying prevention and intervention strategies of bullying for school and home. This book also provides an analysis of the current research on the influence of family in the electronic bullying. Research topics included in the book: 1) Parental education and bullying and cyberbullying; 2) Parental monitoring and

cyberbullying; 3) Parental communication and feelings of affiliation; 4) Student and educator perspective on cyberbullying; 5) Parents' responses to bullying; 6) Parental mediation and bystander behaviors; 7) Development of scales to measure cyberbullying and high internet risks. "Family, Bullying and Cyberbullying" is an essential resource for researchers, graduate students, families, and practitioners in social education, social work, teacher education, and psychology.

Letters to a Young Teacher

Offers information on how to exploit the parallel architectures in a computer's GPU to improve code performance, scalability, and resilience.

Elementary Statistics

In this fascinating journey to the edge of science, Vidal takes on big philosophical questions: Does our universe have a beginning and an end or is it cyclic? Are we alone in the universe? What is the role of intelligent life, if any, in cosmic evolution? Grounded in science and committed to philosophical rigor, this book presents an evolutionary worldview where the rise of intelligent life is not an accident, but may well be the key to unlocking the universe's deepest mysteries. Vidal shows how the fine-tuning controversy can be advanced with computer simulations. He also explores whether natural or artificial selection could hold on a cosmic scale. In perhaps his boldest hypothesis, he argues that signs

of advanced extraterrestrial civilizations are already present in our astrophysical data. His conclusions invite us to see the meaning of life, evolution and intelligence from a novel cosmological framework that should stir debate for years to come.

Finite Element Procedures

Achieve faster and more efficient network design and optimization with this comprehensive guide. Some of the most prominent researchers in the field explain the very latest analytic techniques and results from stochastic geometry for modelling the signal-to-interference-plus-noise ratio (SINR) distribution in heterogeneous cellular networks. This book will help readers to understand the effects of combining different system deployment parameters on key performance indicators such as coverage and capacity, enabling the efficient allocation of simulation resources. In addition to covering results for network models based on the Poisson point process, this book presents recent results for when non-Poisson base station configurations appear Poisson, due to random propagation effects such as fading and shadowing, as well as non-Poisson models for base station configurations, with a focus on determinantal point processes and tractable approximation methods. Theoretical results are illustrated with practical Long-Term Evolution (LTE) applications and compared with real-world deployment results.

Statistics

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The two-volume proceedings LNCS 9665 + LNCS 9666 constitutes the thoroughly refereed proceedings of the 35th Annual International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2016, held in Vienna, Austria, in May 2016. The 62 full papers included in these volumes were carefully reviewed and selected from 274 submissions. The papers are organized in topical sections named: (pseudo)randomness; LPN/LWE; cryptanalysis; masking; fully homomorphic encryption; number theory; hash functions; multilinear maps; message authentication codes; attacks on SSL/TLS; real-world protocols; robust designs; lattice reduction; latticed-based schemes; zero-knowledge; pseudorandom functions; multi-party computation; separations; protocols; round complexity; commitments; lattices; leakage; in differentiability; obfuscation; and automated analysis, functional encryption, and non-malleable codes.

A Level Mathematics for OCR A Student Book 1 (AS/Year 1)

This book constitutes the thoroughly refereed post-conference proceedings of the 6th International Conference on Finite Difference Methods, FDM 2014, held in Lozenetz, Bulgaria, in June 2014. The 36 revised full papers were carefully reviewed and selected from 62 submissions. These papers together with 12 invited papers cover topics such as finite difference and combined finite difference methods as well as finite element methods and their various applications in physics, chemistry, biology and

finance.

The History of the Standard Oil Company

Breastfeeding and Human Lactation

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.

Calculus for Business, Economics, Life Sciences, and Social Sciences

This monograph studies the design of robust, monotonically-convergent iterative learning

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controllers for discrete-time systems. It presents a unified analysis and design framework that enables designers to consider both robustness and monotonic convergence for typical uncertainty models, including parametric interval uncertainties, iteration-domain frequency uncertainty, and iteration-domain stochastic uncertainty. The book shows how to use robust iterative learning control in the face of model uncertainty.

Field Book for Describing and Sampling Soils

Edexcel's own resources for the GCE 2008 specifications.

Iterative Learning Control

Addison-Wesley is proud to celebrate the Tenth Edition of Elementary Statistics.& This text is highly regarded because of its engaging and understandable introduction to statistics. The&author's commitment to providing student-friendly guidance through the material and giving students opportunities to apply their newly learned skills in a real-world context has made Elementary Statistics the #1 best-seller in the market.

Supply Chain Management

Human lactation has evolved to produce a milk composition that is uniquely-designed for the human infant. Not only does human milk optimize infant

growth and development, it also provides protection from infection and disease. More recently, the importance of human milk and breastfeeding in the programming of infant health has risen to the fore. Anchoring of infant feeding in the developmental origins of health and disease has led to a resurgence of research focused in this area. Milk composition is highly variable both between and within mothers. Indeed the distinct maternal human milk signature, including its own microbiome, is influenced by environmental factors, such as diet, health, body composition and geographic residence. An understanding of these changes will lead to unravelling the adaptation of milk to the environment and its impact on the infant. In terms of the promotion of breastfeeding, health economics and epidemiology is instrumental in shaping public health policy and identifying barriers to breastfeeding. Further, basic research is imperative in order to design evidence-based interventions to improve both breastfeeding duration and women's breastfeeding experience.

Stochastic Geometry Analysis of Cellular Networks

Behavior Trees (BTs) provide a way to structure the behavior of an artificial agent such as a robot or a non-player character in a computer game. Traditional design methods, such as finite state machines, are known to produce brittle behaviors when complexity increases, making it very hard to add features without breaking existing functionality. BTs were created to

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address this very problem, and enables the creation of systems that are both modular and reactive. Behavior Trees in Robotics and AI: An Introduction provides a broad introduction as well as an in-depth exploration of the topic, and is the first comprehensive book on the use of BTs. This book introduces the subject of BTs from simple topics, such as semantics and design principles, to complex topics, such as learning and task planning. For each topic, the authors provide a set of examples, ranging from simple illustrations to realistic complex behaviors, to enable the reader to successfully combine theory with practice. Starting with an introduction to BTs, the book then describes how BTs relate to, and in many cases, generalize earlier switching structures, or control architectures. These ideas are then used as a foundation for a set of efficient and easy to use design principles. The book then presents a set of important extensions and provides a set of tools for formally analyzing these extensions using a state space formulation of BTs. With the new analysis tools, the book then formalizes the descriptions of how BTs generalize earlier approaches and shows how BTs can be automatically generated using planning and learning. The final part of the book provides an extended set of tools to capture the behavior of Stochastic BTs, where the outcomes of actions are described by probabilities. These tools enable the computation of both success probabilities and time to completion. This book targets a broad audience, including both students and professionals interested in modeling complex behaviors for robots, game characters, or other AI agents. Readers can choose at which depth and pace they want to learn the subject,

depending on their needs and background.

Behavior Trees in Robotics and AI

Within the framework of tourism companies and tourist destinations, the question of sustainability is gaining importance. Tourists are increasingly aware of the importance of sustainability criteria, awarding greater value to sustainable destinations.

Sustainability refers to a wide range of aspects related to climate change, the economic organization of tourism, social values or questions, job creation, and the necessary protection of the culture of destinations and the environment. Therefore, there is a need for studies that consider these aspects in order to achieve the sustainable development of tourist destinations. Fundamental to this is discovering to what degree tourism companies and destinations approach these questions in the strategies they use to deal with problems stemming from their attempts to be more sustainable.

Conceptual papers and empirical research on the economic, social, cultural, and environmental aspects related to tourism companies and destinations are welcome. Studies that analyze how these questions and the concept of sustainability are included in tourism companies and destinations are necessary in these modern times. This book was established for these reasons, dedicated to examining sustainability in tourism. The papers included in this Special Issue can help us to determine the new directions being addressed in the research on sustainability tourism.

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