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### ADVANCED ENGINEERING MATHEMATICS

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#### PEARSON NEW INTERNATIONAL EDITION

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*Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement.*

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### WHO GUIDELINES FOR INDOOR AIR QUALITY

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#### SELECTED POLLUTANTS

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*World Health Organization This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.*

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### GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)

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*United Nations The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) addresses classification and labelling of chemicals by types of hazards. It provides the basis for worldwide harmonization of rules and regulations on chemicals and aims at enhancing the protection of human health and the environment during their handling, transport and use by ensuring that the information about their physical, health and environmental hazards is available. The sixth revised edition includes, inter alia, a new hazard class for desensitized explosives and a new hazard category for pyrophoric gases; miscellaneous amendments intended to further clarify the criteria for some hazard classes (explosives, specific target organ toxicity following single exposure, aspiration hazard, and hazardous to the aquatic environment) and to complement the information to be included in section 9 of the Safety Data Sheet; revised and further rationalized precautionary statements; and an example of labelling of a small packaging in Annex 7.*

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### ECONOMIC AND MANAGEMENT SCIENCES, GRADE 8

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*Study & master economic and management sciences grade 8 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in economic and management sciences.*

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### AN INTRODUCTION TO LTE

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#### LTE, LTE-ADVANCED, SAE, VOLTE AND 4G MOBILE COMMUNICATIONS

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*John Wiley & Sons Following on from the successful first edition (March 2012), this book gives a clear explanation of what LTE does and how it works. The content is expressed at a systems level, offering readers the opportunity to grasp the key factors that make LTE the hot topic amongst vendors and operators across the globe. The book assumes no more than a basic knowledge of mobile telecommunication systems, and the reader is not expected to have any previous knowledge of the complex mathematical operations that underpin LTE. This second edition introduces new material for the current state of the industry, such as the new features of LTE in Releases 11 and 12, notably coordinated multipoint transmission and proximity services; the main short- and long-term solutions for LTE voice calls, namely circuit switched fallback and the IP multimedia subsystem; and the evolution and current state of the LTE*

market. It also extends some of the material from the first edition, such as inter-operation with other technologies such as GSM, UMTS, wireless local area networks and cdma2000; additional features of LTE Advanced, notably heterogeneous networks and traffic offloading; data transport in the evolved packet core; coverage and capacity estimation for LTE; and a more rigorous treatment of modulation, demodulation and OFDMA. The author breaks down the system into logical blocks, by initially introducing the architecture of LTE, explaining the techniques used for radio transmission and reception and the overall operation of the system, and concluding with more specialized topics such as LTE voice calls and the later releases of the specifications. This methodical approach enables readers to move on to tackle the specifications and the more advanced texts with confidence.

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## **SYSTEMS EDUCATION FOR A SUSTAINABLE PLANET**

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*MDPI* This book is a printed edition of the Special Issue "Systems Education for a Sustainable Planet" that was published in *Systems*

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## **INCOSE SYSTEMS ENGINEERING HANDBOOK**

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### **A GUIDE FOR SYSTEM LIFE CYCLE PROCESSES AND ACTIVITIES**

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*John Wiley & Sons* A detailed and thorough reference on the discipline and practice of systems engineering The objective of the International Council on Systems Engineering (INCOSE) Systems Engineering Handbook is to describe key process activities performed by systems engineers and other engineering professionals throughout the life cycle of a system. The book covers a wide range of fundamental system concepts that broaden the thinking of the systems engineering practitioner, such as system thinking, system science, life cycle management, specialty engineering, system of systems, and agile and iterative methods. This book also defines the discipline and practice of systems engineering for students and practicing professionals alike, providing an authoritative reference that is acknowledged worldwide. The latest edition of the INCOSE Systems Engineering Handbook: Is consistent with ISO/IEC/IEEE 15288:2015 Systems and software engineering—System life cycle processes and the Guide to the Systems Engineering Body of Knowledge (SEBoK) Has been updated to include the latest concepts of the INCOSE working groups Is the body of knowledge for the INCOSE Certification Process This book is ideal for any engineering professional who has an interest in or needs to apply systems engineering practices. This includes the experienced systems engineer who needs a convenient reference, a product engineer or engineer in another discipline who needs to perform systems engineering, a new systems engineer, or anyone interested in learning more about systems engineering.

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## **INTRODUCTION TO MATHEMATICAL STATISTICS**

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### **PROBABILITY AND STATISTICS**

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### **THE SCIENCE OF UNCERTAINTY**

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*Macmillan* Unlike traditional introductory math/stat textbooks, Probability and Statistics: The Science of Uncertainty brings a modern flavor based on incorporating the computer to the course and an integrated approach to inference. From the start the book integrates simulations into its theoretical coverage, and emphasizes the use of computer-powered computation throughout.\* Math and science majors with just one year of calculus can use this text and experience a refreshing blend of applications and theory that goes beyond merely mastering the technicalities. They'll get a thorough grounding in probability theory, and go beyond that to the theory of statistical inference and its applications. An integrated approach to inference is presented that includes the frequency approach as well as Bayesian methodology. Bayesian inference is developed as a logical extension of likelihood methods. A separate chapter is devoted to the important topic of model checking and this is applied in the context of the standard applied statistical techniques. Examples of data analyses using real-world data are presented throughout the text. A final chapter introduces a number of the most important stochastic process models using elementary methods. \*Note: An appendix in the book contains Minitab code for more involved computations. The code can be used by students as templates for their own calculations. If a software package like Minitab is used with the course then no programming is required by the students.

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## **PUBLICATIONS HANDBOOK & STYLE MANUAL**

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The Publications Handbook and Style Manual serves as a guide for authors in preparing manuscripts and other material submitted for publication by American Society of Agronomy, Crop Science Society of America, Soil Science Society of America. It should be used as a primary source for writing, style, editing, and procedures for ASA-CSSA-SSSA publications.

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## **HANDBOOK OF ALTERNATIVE FUEL TECHNOLOGIES, SECOND EDITION**

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*CRC Press* While strides are being made in the research and development of environmentally acceptable and more sustainable alternative fuels—including efforts to reduce emissions of air pollutants associated with combustion processes from electric power generation and vehicular transportation—fossil fuel resources are limited and may soon be on the verge of depletion in the near future. Measuring the correlation between quality of life, energy consumption, and the efficient utilization of energy, the Handbook of Alternative Fuel Technologies, Second Edition thoroughly examines the science and technology of alternative fuels and their processing technologies. It focuses specifically on environmental, technoeconomic, and socioeconomic issues associated with the use of alternative energy sources, such as sustainability, applicable technologies, modes of utilization, and impacts on society. Written with research and development scientists and engineers in mind, the material in this handbook provides a detailed description and an assessment of available and feasible technologies, environmental health and safety issues, governmental regulations, and issues and agendas for R&D. It also includes alternative energy networks for production, distribution, and consumption. What's New in This Edition: Contains several new chapters of emerging interest and updates various chapters throughout Includes coverage of coal gasification and liquefaction, hydrogen technology and safety, shale fuel by hydraulic fracturing, ethanol from lignocellulosics, biodiesel, algae fuels, and energy from waste products Covers statistics, current concerns, and future trends A single-volume

complete reference, the Handbook of Alternative Fuel Technologies, Second Edition contains relevant information on chemistry, technology, and novel approaches, as well as scientific foundations for further enhancements and breakthroughs. In addition to its purposes as a handbook for practicing scientists and engineers, it can also be used as a textbook or as a reference book on fuel science and engineering, energy and environment, chemical process design, and energy and environmental policy.

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## **SATELLITE TECHNOLOGY**

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### **PRINCIPLES AND APPLICATIONS**

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*John Wiley & Sons* Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications. Covering both the technology and its applications, *Satellite Technology* is a concise reference on satellites for commercial, scientific and military purposes. The book explains satellite technology fully, beginning by offering an introduction to the fundamentals, before covering orbits and trajectories, launch and in-orbit operations, hardware, communication techniques, multiple access techniques, and link design fundamentals. This new edition also includes comprehensive chapters on Satellite Networks and Satellite Technology – Emerging Trends. Providing a complete survey of applications, from remote sensing and military uses, to navigational and scientific applications, the authors also present an inclusive compendium on satellites and satellite launch vehicles. Filled with diagrams and illustrations, this book serves as an ideal introduction for those new to the topic, as well as a reference point for professionals. Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications - remote sensing, weather, navigation, scientific, and military - including new chapters on Satellite Networks and Satellite Technology – Emerging Trends. Covers the full range of satellite applications in remote sensing, meteorology, the military, navigation and science, and communications, including satellite-to-under sea communication, satellite cell-phones, and global Xpress system of INMARSAT. The cross-disciplinary coverage makes the book an essential reference book for professionals, R&D scientists and students at post graduate level. Companion website provides a complete compendium on satellites and satellite launch vehicles. An ideal introduction for Professionals and R&D scientists in the field. Engineering Students. Cross disciplinary information for engineers and technical managers.

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### **SENTIMENT ANALYSIS FOR SOCIAL MEDIA**

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*MDPI* Sentiment analysis is a branch of natural language processing concerned with the study of the intensity of the emotions expressed in a piece of text. The automated analysis of the multitude of messages delivered through social media is one of the hottest research fields, both in academy and in industry, due to its extremely high potential applicability in many different domains. This Special Issue describes both technological contributions to the field, mostly based on deep learning techniques, and specific applications in areas like health insurance, gender classification, recommender systems, and cyber aggression detection.

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### **NUTRITION SUPPORT FOR ATHLETIC PERFORMANCE**

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*MDPI* Athletes and their support personnel are constantly seeking evidence-informed recommendations to enhance athletic performance during competition and to optimize training-induced adaptations. Accordingly, nutritional and supplementation strategies are commonplace when seeking to achieve these aims, with such practices being implemented before, during, or after competition and/or training in a periodized manner. Performance nutrition is becoming increasingly specialized and needs to consider the diversity of athletes and the nature of the competitions. This Special Issue, Nutrition Support for Athletic Performance, describes recent advances in these areas.

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### **A GUIDE TO MICROSOFT EXCEL 2013 FOR SCIENTISTS AND ENGINEERS**

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*Academic Press* Completely updated guide for students, scientists and engineers who want to use Microsoft Excel 2013 to its full potential. Electronic spreadsheet analysis has become part of the everyday work of researchers in all areas of engineering and science. Microsoft Excel, as the industry standard spreadsheet, has a range of scientific functions that can be utilized for the modeling, analysis and presentation of quantitative data. This text provides a straightforward guide to using these functions of Microsoft Excel, guiding the reader from basic principles through to more complicated areas such as formulae, charts, curve-fitting, equation solving, integration, macros, statistical functions, and presenting quantitative data. Content written specifically for the requirements of science and engineering students and professionals working with Microsoft Excel, brought fully up to date with the new Microsoft Office release of Excel 2013. Features of Excel 2013 are illustrated through a wide variety of examples based in technical contexts, demonstrating the use of the program for analysis and presentation of experimental results. New to this edition: The Backstage is introduced (a new Office 2013 feature); all the 'external' operations like Save, Print etc. are now in one place. The chapter on charting is totally revised and updated – Excel 2013 differs greatly from earlier versions. Includes many new end-of-chapter problems. Most chapters have been edited to improve readability.

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### **THE POLITICS OF EVIDENCE (OPEN ACCESS)**

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#### **FROM EVIDENCE-BASED POLICY TO THE GOOD GOVERNANCE OF EVIDENCE**

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*Routledge* The Open Access version of this book, available at <http://www.tandfebooks.com/>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 3.0 license. There has been an enormous increase in interest in the use of evidence for public policymaking, but the vast majority of work on the subject has failed to engage with the political nature of decision making and how this influences the ways in which evidence will be used (or misused) within political areas. This book provides new insights into the nature of political bias with regards to evidence and critically considers what an 'improved' use of evidence would look like from a policymaking perspective. Part I describes the great potential for evidence to help achieve social goals, as well as the challenges raised by the political nature of policymaking. It explores the concern of evidence advocates that political interests drive the misuse or manipulation of evidence, as well as counter-concerns of critical policy scholars about how appeals to 'evidence-based

policy' can depoliticise political debates. Both concerns reflect forms of bias – the first representing technical bias, whereby evidence use violates principles of scientific best practice, and the second representing issue bias in how appeals to evidence can shift political debates to particular questions or marginalise policy-relevant social concerns. Part II then draws on the fields of policy studies and cognitive psychology to understand the origins and mechanisms of both forms of bias in relation to political interests and values. It illustrates how such biases are not only common, but can be much more predictable once we recognise their origins and manifestations in policy arenas. Finally, Part III discusses ways to move forward for those seeking to improve the use of evidence in public policymaking. It explores what constitutes 'good evidence for policy', as well as the 'good use of evidence' within policy processes, and considers how to build evidence-advisory institutions that embed key principles of both scientific good practice and democratic representation. Taken as a whole, the approach promoted is termed the 'good governance of evidence' – a concept that represents the use of rigorous, systematic and technically valid pieces of evidence within decision-making processes that are representative of, and accountable to, populations served.

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## **PROBABILITY, STATISTICS, AND STOCHASTIC PROCESSES**

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*John Wiley & Sons* Praise for the First Edition ". . . an excellent textbook . . . well organized and neatly written." —Mathematical Reviews ". . . amazingly interesting . . ." —Technometrics Thoroughly updated to showcase the interrelationships between probability, statistics, and stochastic processes, *Probability, Statistics, and Stochastic Processes, Second Edition* prepares readers to collect, analyze, and characterize data in their chosen fields. Beginning with three chapters that develop probability theory and introduce the axioms of probability, random variables, and joint distributions, the book goes on to present limit theorems and simulation. The authors combine a rigorous, calculus-based development of theory with an intuitive approach that appeals to readers' sense of reason and logic. Including more than 400 examples that help illustrate concepts and theory, the Second Edition features new material on statistical inference and a wealth of newly added topics, including: Consistency of point estimators Large sample theory Bootstrap simulation Multiple hypothesis testing Fisher's exact test and Kolmogorov-Smirnov test Martingales, renewal processes, and Brownian motion One-way analysis of variance and the general linear model Extensively class-tested to ensure an accessible presentation, *Probability, Statistics, and Stochastic Processes, Second Edition* is an excellent book for courses on probability and statistics at the upper-undergraduate level. The book is also an ideal resource for scientists and engineers in the fields of statistics, mathematics, industrial management, and engineering.

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## **PERMANENT MAGNET SYNCHRONOUS MACHINES**

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*MDPI* Interest in permanent magnet synchronous machines (PMSMs) is continuously increasing worldwide, especially with the increased use of renewable energy and the electrification of transports. This book contains the successful submissions of fifteen papers to a Special Issue of *Energies* on the subject area of "Permanent Magnet Synchronous Machines". The focus is on permanent magnet synchronous machines and the electrical systems they are connected to. The presented work represents a wide range of areas. Studies of control systems, both for permanent magnet synchronous machines and for brushless DC motors, are presented and experimentally verified. Design studies of generators for wind power, wave power and hydro power are presented. Finite element method simulations and analytical design methods are used. The presented studies represent several of the different research fields on permanent magnet machines and electric drives.

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## **HANDBOOK OF PHOTOVOLTAIC SCIENCE AND ENGINEERING**

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*John Wiley & Sons* The most comprehensive, authoritative and widely cited reference on photovoltaic solar energy Fully revised and updated, the *Handbook of Photovoltaic Science and Engineering, Second Edition* incorporates the substantial technological advances and research developments in photovoltaics since its previous release. All topics relating to the photovoltaic (PV) industry are discussed with contributions by distinguished international experts in the field. Significant new coverage includes: three completely new chapters and six chapters with new authors device structures, processing, and manufacturing options for the three major thin film PV technologies high performance approaches for multijunction, concentrator, and space applications new types of organic polymer and dye-sensitized solar cells economic analysis of various policy options to stimulate PV growth including effect of public and private investment Detailed treatment covers: scientific basis of the photovoltaic effect and solar cell operation the production of solar silicon and of silicon-based solar cells and modules how choice of semiconductor materials and their production influence costs and performance making measurements on solar cells and modules and how to relate results under standardised test conditions to real outdoor performance photovoltaic system installation and operation of components such as inverters and batteries. architectural applications of building-integrated PV Each chapter is structured to be partially accessible to beginners while providing detailed information of the physics and technology for experts. Encompassing a review of past work and the fundamentals in solar electric science, this is a leading reference and invaluable resource for all practitioners, consultants, researchers and students in the PV industry.

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## **MATHEMATICAL METHODS FOR PHYSICISTS**

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### **A COMPREHENSIVE GUIDE**

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*Academic Press* Providing coverage of the mathematics necessary for advanced study in physics and engineering, this text focuses on problem-solving skills and offers a vast array of exercises, as well as clearly illustrating and proving mathematical relations.

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### **A PROPOSAL THEY CAN'T REFUSE**

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### **A ROM-COM NOVEL**

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*MIRA* "Utterly charming... A Proposal They Can't Refuse is a surefire winner!" —Mia Sosa, USA Today bestselling author of *The Worst*

Best Man Natalie Caña turns up the heat, humor and heart in this debut rom-com about a Puerto Rican chef and an Irish American whiskey distiller forced into a fake engagement by their scheming octogenarian grandfathers. Kamilah Vega is desperate to convince her family to update their Puerto Rican restaurant and enter it into the Fall Foodie Tour. With the gentrification of their Chicago neighborhood, it's the only way to save the place. The fly in her mofongo—her blackmailing abuelo says if she wants to change anything in his restaurant, she'll have to marry the one man she can't stand: his best friend's grandson. Liam Kane spent a decade working to turn his family's distillery into a contender. But just as he and his grandfather are on the verge of winning a national competition, Granda hits him with a one-two punch: he has cancer and has his heart set on seeing Liam married before it's too late. And Granda knows just the girl...Kamilah Vega. If they refuse, their grandfathers will sell the building that houses both their businesses. With their futures on the line, Kamilah and Liam plan to outfox the devious duo, faking an engagement until they both get what they want. But soon, they find themselves tangled up in more than either of them bargained for.

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## **CORPORATE FINANCE**

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### **THEORY AND PRACTICE**

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*John Wiley & Sons* Merging theory and practice into a comprehensive, highly-anticipated text *Corporate Finance* continues its legacy as one of the most popular financial textbooks, with well-established content from a diverse and highly respected author team. Unique in its features, this valuable text blends theory and practice with a direct, succinct style and commonsense presentation. Readers will be introduced to concepts in a situational framework, followed by a detailed discussion of techniques and tools. This latest edition includes new information on venture finance and debt structuring, and has been updated throughout with the most recent statistical tables. The companion website provides statistics, graphs, charts, articles, computer models, and classroom tools, and the free monthly newsletter keeps readers up to date on the latest happenings in the field. The authors have generously made themselves available for questions, promising an answer in seventy-two hours. Emphasizing how key concepts relate to real-world situations is what makes *Corporate Finance* a valuable reference with real relevance to the professional and student alike. Readers will gain insight into the methods and tools that shape the industry, allowing them to: Analyze investments with regard to hurdle rates, cash flows, side costs, and more Delve into the financing process and learn the tools and techniques of valuation Understand cash dividends and buybacks, spinoffs, and divestitures Explore the link between valuation and corporate finance As the global economy begins to recover, access to the most current information and statistics will be required. To remain relevant in the evolving financial environment, practitioners will need a deep understanding of the mechanisms at work. *Corporate Finance* provides the expert guidance and detailed explanations for those requiring a strong foundational knowledge, as well as more advanced corporate finance professionals.

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## **WIRELESS SENSOR NETWORKS**

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### **TECHNOLOGY, PROTOCOLS, AND APPLICATIONS**

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*John Wiley & Sons* Infrastructure for Homeland Security Environments *Wireless Sensor Networks* helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: \* Examples illustrate how concepts are applied to the development and application of \* wireless sensor networks \* Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems \* Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts \* References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.

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## **III-NITRIDE SEMICONDUCTORS AND THEIR MODERN DEVICES**

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*Oxford University Press* All recent developments of nitrides and of their technology are gathered here in a single book, with chapters written by world leaders in the field.

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## **HIGH-PERFORMANCE MODELLING AND SIMULATION FOR BIG DATA APPLICATIONS**

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### **SELECTED RESULTS OF THE COST ACTION IC1406 CHIPSET**

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*Springer* This open access book was prepared as a Final Publication of the COST Action IC1406 "High-Performance Modelling and Simulation for Big Data Applications (cHiPSet)" project. Long considered important pillars of the scientific method, Modelling and Simulation have evolved from traditional discrete numerical methods to complex data-intensive continuous analytical optimisations. Resolution, scale, and accuracy have become essential to predict and analyse natural and complex systems in science and engineering. When their level of abstraction raises to have a better discernment of the domain at hand, their representation gets increasingly demanding for computational and data resources. On the other hand, High Performance Computing typically entails the effective use of parallel and distributed processing units coupled with efficient storage, communication and visualisation systems to

underpin complex data-intensive applications in distinct scientific and technical domains. It is then arguably required to have a seamless interaction of High Performance Computing with Modelling and Simulation in order to store, compute, analyse, and visualise large data sets in science and engineering. Funded by the European Commission, cHiPSet has provided a dynamic trans-European forum for their members and distinguished guests to openly discuss novel perspectives and topics of interests for these two communities. This cHiPSet compendium presents a set of selected case studies related to healthcare, biological data, computational advertising, multimedia, finance, bioinformatics, and telecommunications.

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## **FUZZY COGNITIVE MAPS AND NEUTROSOPHIC COGNITIVE MAPS**

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*Infinite Study* In a world of chaotic alignments, traditional logic with its strict boundaries of truth and falsity has not imbued itself with the capability of reflecting the reality. Despite various attempts to reorient logic, there has remained an essential need for an alternative system that could infuse into itself a representation of the real world. Out of this need arose the system of Neutrosophy (the philosophy of neutralities, introduced by FLORENTIN SMARANDACHE), and its connected logic Neutrosophic Logic, which is a further generalization of the theory of Fuzzy Logic. In this book we study the concepts of Fuzzy Cognitive Maps (FCMs) and their Neutrosophic analogue, the Neutrosophic Cognitive Maps (NCMs). Fuzzy Cognitive Maps are fuzzy structures that strongly resemble neural networks, and they have powerful and far-reaching consequences as a mathematical tool for modeling complex systems. Neutrosophic Cognitive Maps are generalizations of FCMs, and their unique feature is the ability to handle indeterminacy in relations between two concepts thereby bringing greater sensitivity into the results. Some of the varied applications of FCMs and NCMs which has been explained by us, in this book, include: modeling of supervisory systems; design of hybrid models for complex systems; mobile robots and in intimate technology such as office plants; analysis of business performance assessment; formalism debate and legal rules; creating metabolic and regulatory network models; traffic and transportation problems; medical diagnostics; simulation of strategic planning process in intelligent systems; specific language impairment; web-mining inference application; child labor problem; industrial relations: between employer and employee, maximizing production and profit; decision support in intelligent intrusion detection system; hyper-knowledge representation in strategy formation; female infanticide; depression in terminally ill patients and finally, in the theory of community mobilization and women empowerment relative to the AIDS epidemic.

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## **SUSTAINABLE SURFACE WATER MANAGEMENT**

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### **A HANDBOOK FOR SUDS**

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*John Wiley & Sons* Sustainable Surface Water Management: a handbook for SUDS addresses issues as diverse as flooding, water quality, amenity and biodiversity but also mitigation of, and adaptation to, global climate change, human health benefits and reduction in energy use. Chapters are included to cover issues from around the world, but they also address particular designs associated with the implementation of SUDS in tropical areas, problems with retrofitting SUDS devices, SUDS modelling, water harvesting in drought-stricken countries using SUDS and the inclusion of SUDS in the climate change strategies of such cities as Tokyo, New York and Strasbourg.

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## **GROUP DECISION AND NEGOTIATION 2014 GDN 2014**

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### **PROCEEDINGS OF THE JOINT INTERNATIONAL CONFERENCE OF THE INFORMS GDN SECTION AND THE EURO WORKING GROUP ON DSS**

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EWG-DSS

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## **NOTES ON AN EXECUTION**

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### **A NOVEL**

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*HarperCollins* NATIONAL BESTSELLER "Defiantly populated with living women . . . beautifully drawn, dense with detail and specificity . . . Notes on an Execution is nuanced, ambitious and compelling." —Katie Kitamura, NEW YORK TIMES BOOK REVIEW (Editors' Choice) "A searing portrait of the complicated women caught in the orbit of a serial killer. . . . Compassionate and thought-provoking." —BRIT BENNETT, #1 New York Times bestselling author of *The Vanishing Half* Recommended by New York Times Book Review • Los Angeles Times • Washington Post • Entertainment Weekly • Esquire • Good Housekeeping • USA Today • BuzzFeed • Goodreads • Real Simple • Marie Claire • Rolling Stone • Business Insider • Bustle • PopSugar • The Millions • The Guardian • and many more! In the tradition of *Long Bright River* and *The Mars Room*, a gripping and atmospheric work of literary suspense that deconstructs the story of a serial killer on death row, told primarily through the eyes of the women in his life—from the bestselling author of *Girl in Snow*. Ansel Packer is scheduled to die in twelve hours. He knows what he's done, and now awaits execution, the same chilling fate he forced on those girls, years ago. But Ansel doesn't want to die; he wants to be celebrated, understood. Through a kaleidoscope of women—a mother, a sister, a homicide detective—we learn the story of Ansel's life. We meet his mother, Lavender, a seventeen-year-old girl pushed to desperation; Hazel, twin sister to Ansel's wife, inseparable since birth, forced to watch helplessly as her sister's relationship threatens to devour them all; and finally, Saffy, the detective hot on his trail, who has devoted herself to bringing bad men to justice but struggles to see her own life clearly. As the clock ticks down, these three women sift through the choices that culminate in tragedy, exploring the rippling fissures that such destruction inevitably leaves in its wake. Blending breathtaking suspense with astonishing empathy, *Notes on an Execution* presents a chilling portrait of womanhood as it simultaneously unravels the familiar narrative of the American serial killer, interrogating our system of justice and our cultural obsession with crime stories, asking readers to consider the false promise of looking for meaning in the psyches of violent men. "Poetic and mesmerizing . . . Powerful, important, intensely human, and filled with a unique examination of tragedy, one where the reader is left with a curious emotion: hope." —USA TODAY "A profound and staggering experience of empathy that challenges us to confront what it means to be human in our darkest moments. . . . I relished every page of this brilliant and gripping masterpiece." —ASHLEY AUDRAIN, New York Times bestselling author of *The Push*

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## **MATHEMATICAL STATISTICS WITH APPLICATIONS IN R**

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*Elsevier Mathematical Statistics with Applications in R, Second Edition*, offers a modern calculus-based theoretical introduction to mathematical statistics and applications. The book covers many modern statistical computational and simulation concepts that are not covered in other texts, such as the Jackknife, bootstrap methods, the EM algorithms, and Markov chain Monte Carlo (MCMC) methods such as the Metropolis algorithm, Metropolis-Hastings algorithm and the Gibbs sampler. By combining the discussion on the theory of statistics with a wealth of real-world applications, the book helps students to approach statistical problem solving in a logical manner. This book provides a step-by-step procedure to solve real problems, making the topic more accessible. It includes goodness of fit methods to identify the probability distribution that characterizes the probabilistic behavior or a given set of data. Exercises as well as practical, real-world chapter projects are included, and each chapter has an optional section on using Minitab, SPSS and SAS commands. The text also boasts a wide array of coverage of ANOVA, nonparametric, MCMC, Bayesian and empirical methods; solutions to selected problems; data sets; and an image bank for students. Advanced undergraduate and graduate students taking a one or two semester mathematical statistics course will find this book extremely useful in their studies. Step-by-step procedure to solve real problems, making the topic more accessible Exercises blend theory and modern applications Practical, real-world chapter projects Provides an optional section in each chapter on using Minitab, SPSS and SAS commands Wide array of coverage of ANOVA, Nonparametric, MCMC, Bayesian and empirical methods

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## **SPORTS FINANCE 2018**

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*MDPI Sports economics* is a relatively new field of research that is experiencing rapid growth in the economics literature. The importance of the sports industry to economies coupled with the availability of financial and productivity data have made the study of sports economics a useful avenue for exploring research questions that have eluded mainstream economics fields. The main goal of this Special Issue of the *International Journal of Financial Studies* is to encourage theoretical and applied research in sports economics, which is of interest to both academics and practitioners. For this purpose, this Special Issue on "Sports Finance" invites papers on topics, such as, but not limited to, salary determination, ticket pricing, revenue sharing, salary caps, competitive balance, new stadium financing, rival league behavior, determinants of revenue, television and media, tournament prize structures, financial distress in professional sports, financial fair play, financial control of sports clubs, Third Party Ownership, financial efficiency in professional sports, budget constraints and sport performance, financial information of sports, ownership of professional sport clubs and Crowdfunding in sports. Papers on both professional and amateur sports are welcome.

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## **STRATEGIC LATENCY UNLEASHED**

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### **THE ROLE OF TECHNOLOGY IN A REVISIONIST GLOBAL ORDER AND THE IMPLICATIONS FOR SPECIAL OPERATIONS FORCES**

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The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and offers possible solutions to the complexities that are challenging many long-held assumptions. The chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy, intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.

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## **EXPLORING AND OPTIMIZING AGRICULTURAL LANDSCAPES**

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*Springer Nature* The book informs about agricultural landscapes, their features, functions and regulatory mechanisms. It characterizes agricultural production systems, trends of their development, and their impacts on the landscape. Agricultural landscapes are multifunctional systems, coupled with all nexus problems of the 21st century. This has led to serious discrepancies between agriculture and environment, and between urban and rural population. The mission, key topics and methods of research in order to understanding, monitoring and controlling processes in rural landscapes is being explained. Studies of international expert teams, many of them from Russia, demonstrate approaches towards both improving agricultural productivity and sustainability, and enhancing ecosystem services of agricultural landscapes. Scientists of different disciplines, decision makers, farmers and further informed people dealing with the evolvement of thriving rural landscapes are the primary audience of this book.

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## **THE CLUB**

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### **A NOVEL**

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*HarperCollins* A REESE'S BOOK CLUB PICK INSTANT NEW YORK TIMES BESTSELLER "Are you ready for the roller coaster ride that is *The Club*? . . . A beautifully written, densely plotted murder mystery that takes place at a private club off the coast of England. Read about a luxurious, celeb-only island during a weekend of partying and ultimately murder." —Reese Witherspoon (Reese's Book Club March '22 Pick) From the author of *People Like Her* comes a smart and sinister murder mystery set in the secretive world of exclusive celebrity clubs. Everyone's Dying to Join . . . The Home Group is a glamorous collection of celebrity members' clubs dotted across the globe, where the rich and famous can party hard and then crash out in its five-star suites, far from the prying eyes of fans and the media. The most spectacular of all is *Island Home*—a closely-guarded, ultraluxurious resort, just off the English coast—and its three-day launch party is easily the most coveted A-list invite of the decade. But behind the scenes, tensions are at breaking point: the ambitious and expensive project has pushed the Home Group's CEO and his long-suffering team to their absolute limits. All of them have something to hide—and that's before the beautiful people with their own ugly secrets even set foot on the island. As tempers

fray and behavior worsens, as things get more sinister by the hour and the body count piles up, some of Island Home's members will begin to wish they'd never made the guest list. Because at this club, if your name's on the list, you're not getting out.

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### **SMALL- SIGNAL AUDIO DESIGN**

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*Taylor & Francis Small- Signal Audio Design* is an essential for audio equipment designers and engineers for one simple reason; it enables you as a professional to develop reliable, high-performance circuits. This practical handbook not only teaches you the basic fundamentals but shows you how to apply opamps and discrete transistors in the preamplifier and signal-processing areas of audio and other low-frequency areas. It provides you with the necessary in-depth information, with presentations on the technologies that power the equipment- hi-fi preamplifiers, audio mixers, electronic crossovers, among others. Full of valuable information it includes exceptional audio mixer material, based on the authors 19 year design experience, revealing a lot of specialized information that has never been published before. Get answers to your most critical questions, insight into development techniques, and best-practices on optimizing features that will define your product's success.

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### **HANDBOOK OF BIOENERGY CROPS**

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#### **A COMPLETE REFERENCE TO SPECIES, DEVELOPMENT AND APPLICATIONS**

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*Earthscan* This completely revised second edition includes new information on biomass in relation to climate change, new coverage of vital issues including the "food versus fuel" debate, and essential new information on "second generation" fuels and advances in conversion techniques. The book begins with a guide to biomass accumulation, harvesting, transportation and storage, as well as conversion technologies for biofuels. This is followed by an examination of the environmental impact and economic and social dimensions, including prospects for renewable energy. The book then goes on to cover all the main potential energy crops.

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### **ELECTROCHEMICAL METHODS: FUNDAMENTALS AND APPLICATIONS, 2ND EDITION**

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*Wiley Global Education* A broad and comprehensive survey of the fundamentals for electrochemical methods now in widespread use. This book is meant as a textbook, and can also be used for self-study as well as for courses at the senior undergraduate and beginning graduate levels. Knowledge of physical chemistry is assumed, but the discussions start at an elementary level and develop upward. This revision comes twenty years after publication of the first edition, and provides valuable new and updated coverage.

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### **EQUITY VALUATION: SCIENCE, ART, OR CRAFT?**

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*CFA Institute Research Foundation* The price at which a stock is traded in the market reflects the ability of the firm to generate cash flow and the risks associated with generating the expected future cash flows. The authors point to the limits of widely used valuation techniques. The most important of these limits is the inability to forecast cash flows and to determine the appropriate discount rate. Another important limit is the inability to determine absolute value. Widely used valuation techniques such as market multiples - the price-to-earnings ratio, firm value multiples or a use of multiple ratios, for example - capture only relative value, that is, the value of a firm's stocks related to the value of comparable firms (assuming that comparable firms can be identified). The study underlines additional problems when it comes to valuing IPOs and private equity: Both are sensitive to the timing of the offer, suffer from information asymmetry, and are more subject to behavioral elements than is the case for shares of listed firms. In the case of IPOs in particular, the authors discuss how communication strategies and media hype play an important role in the IPO valuation/pricing process.

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### **DIFFERENTIAL EQUATIONS AND BOUNDARY VALUE PROBLEMS: COMPUTING AND MODELING, GLOBAL EDITION**

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*Pearson Higher Ed* For introductory courses in Differential Equations. This best-selling text by these well-known authors blends the traditional algebra problem solving skills with the conceptual development and geometric visualisation of a modern differential equations course that is essential to science and engineering students. It reflects the new qualitative approach that is altering the learning of elementary differential equations, including the wide availability of scientific computing environments like Maple, Mathematica, and MATLAB. Its focus balances the traditional manual methods with the new computer-based methods that illuminate qualitative phenomena and make accessible a wider range of more realistic applications. Seldom-used topics have been trimmed and new topics added: it starts and ends with discussions of mathematical modeling of real-world phenomena, evident in figures, examples, problems, and applications throughout the text. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

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### **BASIC ECONOMETRICS**

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### **INSTRUCTOR'S MANUAL**

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