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Fundamentals Of Le Data Networks

Praise for the Third Edition "This is one of the best books available. Its excellent organizational structure allows quick reference to specific models and its clear presentation . . . solidifies the understanding of the concepts being presented."
—**IIE Transactions on Operations Engineering**
Thoroughly revised and expanded to reflect the latest developments in the field, Fundamentals of Queueing Theory, Fourth Edition continues to

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present the basic statistical principles that are necessary to analyze the probabilistic nature of queues. Rather than presenting a narrow focus on the subject, this update illustrates the wide-reaching, fundamental concepts in queueing theory and its applications to diverse areas such as computer science, engineering, business, and operations research. This update takes a numerical approach to understanding and making probable estimations relating to queues, with a comprehensive outline of simple and more advanced queueing models. Newly featured topics of the Fourth Edition include: Retrial queues

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Approximations for queueing networks Numerical inversion of transforms Determining the appropriate number of servers to balance quality and cost of service Each chapter provides a self-contained presentation of key concepts and formulae, allowing readers to work with each section independently, while a summary table at the end of the book outlines the types of queues that have been discussed and their results. In addition, two new appendices have been added, discussing transforms and generating functions as well as the fundamentals of differential and difference equations. New examples are now included along

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with problems that incorporate QtsPlus software, which is freely available via the book's related Web site. With its accessible style and wealth of real-world examples, Fundamentals of Queueing Theory, Fourth Edition is an ideal book for courses on queueing theory at the upper-undergraduate and graduate levels. It is also a valuable resource for researchers and practitioners who analyze congestion in the fields of telecommunications, transportation, aviation, and management science. Chemical principles are fundamental to the Earth sciences, and geoscience students increasingly require a firm grasp of basic chemistry to succeed

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in their studies. The enlarged third edition of this highly regarded textbook introduces the student to such 'geo-relevant' chemistry, presented in the same lucid and accessible style as earlier editions, but the new edition has been strengthened in its coverage of environmental geoscience and incorporates a new chapter introducing isotope geochemistry. The book comprises three broad sections. The first (Chapters 1–4) deals with the basic physical chemistry of geological processes. The second (Chapters 5–8) introduces the wave-mechanical view of the atom and explains the various types of chemical bonding that give Earth

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materials their diverse and distinctive properties. The final chapters (9–11) survey the geologically relevant elements and isotopes, and explain their formation and their abundances in the cosmos and the Earth. The book concludes with an extensive glossary of terms; appendices cover basic maths, explain basic solution chemistry, and list the chemical elements and the symbols, units and constants used in the book.

Principles and Practice of Clinical Research, Fourth Edition has been thoroughly revised to provide a comprehensive look at both the fundamental principles and expanding practice of clinical

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research. New to this edition of this highly regarded reference, authors have focused on examples that broadly reflect clinical research on a global scale while including a discussion of international regulations, studies, and implications. In addition to key topics such as bioethics, clinical outcome data, cultural diversity, protocol guidelines, and “omic platforms, this edition contains new chapters devoted to electronic health records and information resources for clinical researchers, as well as the many opportunities associated with big data. Covering a vast number of topics and practical advice for both novice and advanced clinical

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investigators, this book is a highly relevant and essential resource for all those involved in conducting research. Features input from experts in the field dedicated to translating scientific research from bench to bedside and back Provides expanded coverage of global clinical research Contains hands-on, practical suggestions, illustrations, and examples throughout Includes new chapters on the international regulation of drugs and biologics, the emergence of the important role of comparative effectiveness research and how to identify clinical risks and manage patient safety in a clinical research setting

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Fundamentals of Nonlinear Digital Filtering is the first book of its kind, presenting and evaluating current methods and applications in nonlinear digital filtering. Written for professors, researchers, and application engineers, as well as for serious students of signal processing, this is the only book available that functions as both a reference handbook and a textbook. Solid introductory material, balanced coverage of theoretical and practical aspects, and dozens of examples provide you with a self-contained, comprehensive information source on nonlinear filtering and its applications.

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A guide to planning, implementing, managing, and using storage area networks to increase the efficiency of your network infrastructure Gain in-depth coverage of SAN fundamentals, topologies, implementation and management techniques, and products Build and sharpen your troubleshooting skills for data-mining, online transaction processing, imaging, data warehousing, and other highly data-intensive applications Understand how to implement the Fibre Channel and iSCSI protocols, which are key to any SAN solution Learn current industry implementation and application standards, as well as future advances During the last decade, a

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multitude of changes in computing technology and the globalization of business through the Internet have resulted in a tremendous growth in storage requirements. This has forced many organizations around the world to reassess the way they view their storage environment. Many applications, such as e-commerce, imaging, data warehousing, Enterprise Resource Planning (ERP), and Customer Relationship Management (CRM), fill storage media quickly. Data accessibility and availability for these applications has to be fast and efficient. Clearly, the ever-increasing information access requirements have had a profound effect on most data centers. As

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a result, many organizations are searching for cost-effective ways to ensure high data availability and reliability. Storage Area Network Fundamentals presents the benefits of storage area networks (SANs) to corporate users and enables them to deploy SAN technology effectively. Designed as an introduction to SANs, Storage Area Network Fundamentals develops an understanding of SAN basics and shows how to plan, implement, and manage a SAN. This book covers the topologies, protocols, and products required to implement and manage efficient SANs.

Fundamentals of Advanced Omics Technologies:

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From Genes to Metabolites covers the fundamental aspects of the new instrumental and methodological developments in omics technologies, including those related to genomics, transcriptomics, epigenetics, proteomics and metabolomics, as well as other omics approaches such as glycomics, peptidomics and foodomics. The principal applications are presented in the following complementary volume. The chapters discuss in detail omics technologies, DNA microarray analysis, next-generation sequencing technologies, genome-wide analysis of methylation and histone modifications, emerging nanotechniques in

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proteomics, imaging mass spectrometry in proteomics, recent quantitative proteomics approaches, and advances in high-resolution NMR-based metabolomics, as well as MS-based non-targeted metabolomics and metabolome analysis by CE-MS, global glycomics analyses, foodomics, and high resolution analytical tools for quantitative peptidomics. Key aspects related to chemometrics, bioinformatics, data treatment, data integration and systems biology, deep-sequencing data analysis, statistical approaches for the analysis of microarray data, the integration of transcriptome and metabolome data and computational approaches for

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visualization and integration of omics data are also covered. Covers the latest advances in instrumentation, experimental design, sample preparation, and data analysis Provides thorough explanations and descriptions of specific omics technologies Describes advanced tools and methodologies for data pretreatment, storage, curation and analysis, as well as data integration The aim of this book is to present fundamentals of algebraic specifications with respect to the following three aspects: fundamentals in the sense of a carefully motivated introduction to algebraic specifications, which is easy to understand for

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computer scientists and mathematicians; fundamentals in the sense of mathematical theories which are the basis for precise definitions, constructions, results, and correctness proofs; and fundamentals in the sense of concepts, which are introduced on a conceptual level and formalized in mathematical terms. The book is equally suitable as a text book for graduate courses and as a reference for researchers and system developers.

An emerging technology, Speaker Recognition is becoming well-known for providing voice authentication over the telephone for helpdesks, call centres and other enterprise businesses for

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business process automation. "Fundamentals of Speaker Recognition" introduces Speaker Identification, Speaker Verification, Speaker (Audio Event) Classification, Speaker Detection, Speaker Tracking and more. The technical problems are rigorously defined, and a complete picture is made of the relevance of the discussed algorithms and their usage in building a comprehensive Speaker Recognition System. Designed as a textbook with examples and exercises at the end of each chapter, "Fundamentals of Speaker Recognition" is suitable for advanced-level students in computer science and engineering, concentrating on biometrics,

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speech recognition, pattern recognition, signal processing and, specifically, speaker recognition. It is also a valuable reference for developers of commercial technology and for speech scientists.

Please click on the link under "Additional Information" to view supplemental information including the Table of Contents and Index.

[Fundamentals of Speaker Recognition](#)

[Fundamentals of Queueing Theory](#)

[International Symposium, FSEN 2007, Tehran, Iran,](#)

[April 17-19, 2007, Proceedings](#)

[Principles and Practice of Clinical Research](#)

[Fundamentals of Ocean Renewable Energy](#)

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[Fundamentals of the Theory of Computation: Principles and Practice](#)

[Fundamentals of Algebraic Specification 1](#)

[Essentials of Bio-Statistics: An overview with the help of Software](#)

[Fundamentals of Information Technology Equations and Initial Semantics](#)

The authors present an introduction to the use of scientific methods in the study of the behavior of individual subjects across a wide range of settings. This straightforward and practical text offers in-depth coverage of every aspect of the research process - including science and the analysis

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of behavior, designing experiments, data collection, and graphic analysis of data - and provides practical suggestions for averting problems at each stage. Chapters include methods for presenting data at conferences and journal articles.

Designed to help students develop skills in evaluating research and conducting studies, this brief version of Rafael J. Engel and Russell K. Schutt's popular, *The Practice of Research in Social Work*, makes principles of evidence-based practice come alive through illustration of actual social work research. With integration of the CSWE Competencies, the text addresses issues and

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concerns common to the discipline and encourages students to address diversity and ethics when planning and evaluating research studies. The Second Edition includes a focus on qualitative research, a new chapter on research ethics, new sections on mixed methods research and community-based participatory research, and more. This book intends to provide an overview of biostatistical concepts and methodology through the use of statistical software. It helps clinicians, health care and biomedical professionals who need to have basic knowledge of biostatistics as they come across clinical data related to patient, drug and dosage requirement, treatment

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modalities in day to day life and they are required to take clinical and health care decisions based on the data. This book covers basic concepts involved in the field of Biostatistics such as descriptive statistics, inferential statistics, correlation and regression along with the advanced concepts such as factor analysis, cluster analysis, discriminant analysis and survival analysis. Each topic is explained with the help of R statistical package (open source package). One important note that the book will not discuss about the formulas and equations involved in the statistical concepts and the author assumes that the readers have basic understanding

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of excel as the sample dataset is used in the book are mostly excel based datasets and also have some clinical background.

This book brings together in one volume selected important topics in craniofacial growth. Topics include: principles of skeletal growth; osteogenesis and its contribution to the formation of the cranial base and craniofacial joints; prenatal development of the facial skeleton; growth of the maxilla, mandible, nasomaxillary complex, orbit, cranial base, ear, nose, capsule, and cranial vault; bone remodeling; muscles; soft tissues; and blood vessels. Fundamentals of Craniofacial Growth contains detailed illustrations and

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extensive reference lists. Independently authored chapters provide comprehensive reviews encompassing both contemporary and historical perspectives. In addition to medicine and dentistry, contributors provide expertise from such diverse backgrounds as anatomy, biology, biomathematics, embryology, orthodontics, physical anthropology, and plastic and reconstructive surgery.

"Jobs in data science abound, but few people have the data science skills needed to fill these increasingly important roles in organizations. Data Science For Dummies is the perfect starting point for IT professionals and students interested in making sense of their

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organization's massive data sets and applying their findings to real-world business scenarios. From uncovering rich data sources to managing large amounts of data within hardware and software limitations, ensuring consistency in reporting, merging various data sources, and beyond, you'll develop the know-how you need to effectively interpret data and tell a story that be understood by anyone in your organization."--Provided by publisher.

A Revised and Updated Edition of a Bestselling GIS Text
Fundamentals of Crime Mapping, Second Edition walks readers through the research, theories, and history of

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geographic information systems used in law enforcement. Practical, comprehensive, and highly accessible, the revised and updated Second Edition of this bestselling explains the day-to-day application of crime analysis for mapping. The text is packed with relevant real-world scenarios that contextualize key concepts and reflect actual crime patterns, trends, and series. Students will develop the skills to analyze and synthesize information and transition classroom-based knowledge to careers in the fast-growing field of law enforcement. Special topics discussed include current basic mapping terminology, crime trends in rural and urban areas, the major

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ecological theories of crime, geographic profiling, and empirical research using crime mapping tools. The Second Edition incorporates all-new material, including new chapters on the basics of cartography and police methodologies and their impact on crime mapping, as well as all-new exercises using ArcGIS 10. Fundamentals of Crime Mapping, Second Edition helps to equip any practitioner of crime mapping and its related fields with the tools and understanding necessary to meet the challenges of the day.

Learn to accurately analyze urine and body fluids with Fundamentals of Urine & Body Fluid Analysis, 4th

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Edition. Known for its clear writing style, logical organization, and vivid full-color illustrations, this renowned text covers the fundamental principles of ur and body fluids that are frequently encountered in the clinical laboratory. This includes the collection and analysis of urine, fecal specimens, vaginal secretions, a other body fluids such as cerebrospinal, synovial, seminal, amniotic, pleural, pericardial, and peritoneal fluids. In addition, author Nancy Brunzel also shares her own extensive knowledge and expertise in the field as highlights key information and walks you through essential techniques and procedures — showing you h

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to correlate data with your knowledge of basic anatomy and physiology in order to understand pathologic processes. In all, this is the perfect book to help you master all aspects of urine and body fluid analysis. UNIQUE! Analysis of Vaginal Secretions chapter covers vaginal wet preps — a fluid collected and evaluated frequently in physician offices. UNIQUE! Image gallery on urine sediment houses 100 urine sediment micrographs to help you accurately identify urine sediment elements. UNIQUE! Chapter on microscopy provides valuable information as you complete clinical work with microscopes. Full color, high quality images aid in

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accurately identifying urine and body fluids at a microscopic level. Glossary at the end of the book provides accurate definitions at your fingertips. Excellent pedagogy includes key terms, learning objectives, case studies, and study questions to help provide a framework and learning pathway. NEW! Fully updated content provides the latest information and procedures in fluid analysis. NEW! Updated illustrations and micrographs paint a vivid picture of text concepts to ensure you can properly identify fluid elements.

Vols. for 1932- include a separately paged section of abstracts (1948-Mar. 1954 called Engineering abstracts)

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Section 3. Shipbuilding and marine engineering, v. 11-17 no. 3; Apr. 1954- called Marine engineering and shipbuilding abstracts, v. 17, no. 4-

[Fundamentals of Behavior Analytic Research](#)

[Fundamentals of Powder Diffraction and Structural Characterization of Materials, Second Edition](#)

[Fundamentals of Exploratory Analysis of Variance](#)

[Inside Bluetooth Low Energy](#)

[Data Science For Dummies](#)

[Fundamentals of Cell Immobilisation Biotechnology](#)

[Principles of Marine Bioacoustics](#)

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[Geoscience](#)

[Fundamentals of Magnesium Alloy Metallurgy](#)

[Fundamentals of Crime Mapping](#)

Fundamentals of Ocean Renewable Energy: Generating Electricity from the Sea presents the basic concepts of mechanics and introduces the various technical aspects of ocean renewable energy. Contents follow a logical sequence, starting with hydrodynamics and then separately examining each conversion technology, with special focus on tidal energy, offshore wind and wave energy, as well as current and ocean thermal energy conversion

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(OTEC). The authors explore key topics for resource characterization and optimization, such as monitoring and measurement methods and ocean modeling. They also discuss the sustainability, planning, integration and distribution challenges for the implementation of these technologies, including co-location with other systems. Finally, case studies of ocean energy sites and devices allow for a better understanding of how ocean energy conversion works in real-world settings. This book is an invaluable resource for students at graduate and senior undergraduate level engineering (ocean, mechanical, and civil) and oceanography with prior

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knowledge of fluid mechanics and mechanics of materials. Presents the fundamental physics and theory behind ocean energy systems, covering both oceanographic and engineering aspects of ocean energy Explores the most widely adopted conversion technologies, including tidal, wave, offshore wind, ocean thermal and currents Humans have always been fascinated by marine life, from extremely small diatoms to the largest mammal that inhabits our planet, the blue whale. However, studying marine life in the ocean is an extremely difficult propo- tion because an ocean environment is not only vast but also opaque to most instruments

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and can be a hostile environment in which to perform experiments and research. The use of acoustics is one way to effectively study animal life in the ocean. Acoustic energy propagates in water more efficiently than almost any form of energy and can be utilized by animals for a variety of purposes and also by scientists interested in studying their behavior and natural history. However, underwater acoustics have traditionally been in the domain of physicists, engineers and mathematicians. Studying the natural history of animals is in the domain of biologists and physiologists. Understanding behavior of animals has traditionally involved psychologists

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and zoologists. In short, marine bioacoustics is and will continue to be a diverse discipline involving investigators from a variety of backgrounds, with very different knowledge and skill sets. The inherent inter-disciplinary nature of marine bioacoustics presents a large challenge in writing a single text that would be meaningful to various investigators and students interested in this field. Yet we have embarked on this challenge to produce a volume that would be helpful to not only beginning investigators but to seasoned researchers. The Definitive Volume on Cutting-Edge Exploratory Analysis of Massive Spatial and Spatiotemporal

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Databases Since the publication of the first edition of Geographic Data Mining and Knowledge Discovery, new techniques for geographic data warehousing (GDW), spatial data mining, and geovisualization (GVis) have been developed. In addition, there has been

The analysis of variance is presented as an exploratory component of data analysis, while retaining the customary least squares fitting methods. Balanced data layouts are used to reveal key ideas and techniques for exploration. The approach emphasizes both the individual observations and the separate parts that the analysis

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produces. Most chapters include exercises and the appendices give selected percentage points of the Gaussian, t, F chi-squared and studentized range distributions.

Magnesium and magnesium alloys offer a wealth of valuable properties, making them of great interest for use across a wide range of fields. This has led to extensive research focused on understanding the properties of magnesium and how these can be controlled during processing. Fundamentals of magnesium alloy metallurgy presents an authoritative overview of all aspects of magnesium alloy metallurgy, including physical metallurgy,

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deformation, corrosion and applications. Beginning with an introduction to the primary production of magnesium, the book goes on to discuss physical metallurgy of magnesium and thermodynamic properties of magnesium alloys. Further chapters focus on understanding precipitation processes of magnesium alloys, alloying behaviour of magnesium, and alloy design. The formation, corrosion and surface finishing of magnesium and its alloys are reviewed, before Fundamentals of magnesium alloy metallurgy concludes by exploring applications across a range of fields. Aerospace, automotive and other structural applications of

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magnesium are considered, followed by magnesium-based metal matrix composites and the use of magnesium in medical applications. With its distinguished editors and international team of expert contributors, Fundamentals of magnesium alloy metallurgy is a comprehensive tool for all those involved in the production and application of magnesium and its alloys, including manufacturers, welders, heat-treatment and coating companies, engineers, metallurgists, researchers, designers and scientists working with these important materials. Overviews all aspects of magnesium alloy metallurgy Discusses physical metallurgy of

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magnesium and thermodynamic properties of magnesium alloys Reviews the formation, corrosion and surface finishing of magnesium and its alloys This book is a compilation of readings representing the basis for the practice of pediatric audiology. It contains 47 selected articles, each considered critical to understanding the fundamental principles in the field. Divided into five sections, the book covers the development of audition in infants, background information for current practice, test techniques and technology, and hearing loss in special populations. The readings in the book provide a foundation of knowledge for anyone in the

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field of pediatric audiology.

A little over 25 years have passed since the 1st edition of this book appeared in print. Seems like an instant but also eternity, especially considering numerous developments in the hardware and software that have made it from the laboratory test beds into the real world of powder diffraction. This prompted a revision, which had to be beyond cosmetic limits. The book was, and remains focused on standard laboratory powder diffractometry. It is still meant to be used as a text for teaching students about the capabilities and limitations of the powder diffraction method. We also hope that it goes beyond

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a simple text, and therefore, is useful as a reference to practitioners of the technique. The original book had seven long chapters that may have made its use as a text - convenient. So the second edition is broken down into 25 shorter chapters. The first fifteen are concerned with the fundamentals of powder diffraction, which makes it much more logical, considering a typical 16-week long semester. The last ten chapters are concerned with practical examples of structure solution and refinement, which were preserved from the first edition and expanded by another example – R solving the crystal structure of Tylenol .

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A comprehensive, tutorial-style introduction to the algorithms necessary for tomographic imaging.

[*Essentials of Bioinformatics, Volume I*](#)

[*Fundamentals of Geophysics*](#)

[*Principles of Distributed Database Systems*](#)

[*Future Databases '92*](#)

[*Fundamentals of Irrigation and On-farm Water Management:*](#)

[*Fundamentals of Social Work Research*](#)

[*Fundamentals of Natural Gas Processing*](#)

[*Foundations of Pediatric Audiology*](#)

[*Understanding Bioinformatics: Genes to Proteins*](#)

[*Fundamentals of Operating Systems*](#)

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Bioinformatics is an integrative field of computer science, genetics, genomics, proteomics, and statistics, which has undoubtedly revolutionized the study of biology and medicine in past decades. It mainly assists in modeling, predicting and interpreting large multidimensional biological data by utilizing advanced computational methods. Despite its enormous potential, bioinformatics is not widely integrated into the academic curriculum as most life science students and researchers are still not equipped with the necessary knowledge to take advantage of this powerful tool. Hence, the primary purpose

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of our book is to supplement this unmet need by providing an easily accessible platform for students and researchers starting their career in life sciences. This book aims to avoid sophisticated computational algorithms and programming. Instead, it mostly focuses on simple DIY analysis and interpretation of biological data with personal computers. Our belief is that once the beginners acquire these basic skillsets, they will be able to handle most of the bioinformatics tools for their research work and to better understand their experimental outcomes. Unlike other bioinformatics books

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which are mostly theoretical, this book provides practical examples for the readers on state-of-the-art open source tools to solve biological problems. Flow charts of experiments, graphical illustrations, and mock data are included for quick reference. Volume I is therefore an ideal companion for students and early stage professionals wishing to master this blooming field.

Science and engineering students depend heavily on concepts of mathematical modeling. In an age where almost everything is done on a computer, author Clive Dym believes that students need to

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understand and "own" the underlying mathematics that computers are doing on their behalf. His goal for Principles of Mathematical Modeling, Second Edition, is to engage the student reader in developing a foundational understanding of the subject that will serve them well into their careers. The first half of the book begins with a clearly defined set of modeling principles, and then introduces a set of foundational tools including dimensional analysis, scaling techniques, and approximation and validation techniques. The second half demonstrates the latest applications for these

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tools to a broad variety of subjects, including exponential growth and decay in fields ranging from biology to economics, traffic flow, free and forced vibration of mechanical and other systems, and optimization problems in biology, structures, and social decision making. Prospective students should have already completed courses in elementary algebra, trigonometry, and first-year calculus and have some familiarity with differential equations and basic physics. Serves as an introductory text on the development and application of mathematical models Focuses on techniques of particular interest to engineers,

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scientists, and others who model continuous systems Offers more than 360 problems, providing ample opportunities for practice Covers a wide range of interdisciplinary topics--from engineering to economics to the sciences Uses straightforward language and explanations that make modeling easy to understand and apply

New to this Edition: A more systematic approach to mathematical modeling, outlining ten specific principles Expanded and reorganized chapters that flow in an increasing level of complexity Several new problems and updated applications Expanded figure captions that provide more

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information Improved accessibility and flexibility for teaching

Agriculture is one of the few industries that has been creating resources continuously from nature. Sustainability of this industry is a crucial issue at now-a-days. Agricultural technologies are important to feed the growing world population. Agricultural engineering has been applying scientific principles for the optimal use of natural resources in agricultural production for the benefit of humankind. The role of agricultural engineering is increasing in the coming days at the forthcoming challenges of producing more food

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with less water coupled with climate uncertainty. I am happy to know that a book entitled "Fundamentals of Irrigation and On-farm Water Management", written by Engr. Dr. M. H. Ali, is going to be published by Springer. The book is designed to cover the major fields of agricultural and environmental engineering such as weather, plant, soil, water, and basics of on-farm water management. The book will be quite useful for the students of agricultural engineering. Students of other related branches of engineering sciences, and engineers working in the field and at research institutes will also be benefited. The book may

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serve as a text book for the students and as a practical hand-book for the practitioners and researchers in the field of irrigation and on-farm water management. Utilization of the recent literature in the area and citation of relevant journals / reports have added a special value to this book. Considering the topics covered, engineers, scientists, practitioners, and educators will find this book as a valuable resource.

Fundamentals of Natural Gas Processing explores the natural gas industry from the wellhead to the marketplace. It compiles information from the open literature, meeting proceedings, and experts

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to accurately depict the state of gas processing technology today and highlight technologies that could become important in the future. This book covers

Fundamentals of Nursing, 2e highlights the core themes of nursing, including nurse, person, health and environment, covering the fundamental concepts, skills and standards of practice.

Research and evidence-based practice issues are highlighted to help introductory nursing students prepare for delivering care for culturally diverse populations across a continuum of settings. With up-to-date coverage of the Registered Nurse

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Standards of Practice (2016) and key pedagogical features such as our unique 'Spotlight on Critical Thinking' questions, this text challenges students to assess their own nursing practice and apply the concepts to real-life clinical settings.

Fundamentals of Nursing presents in-depth material in a clear, concise manner using language that is easy to read and has good coverage of topics such as rural and remote nursing and Aboriginal and Torres Strait Islander health. This text is complemented by the bestselling Tollefson, Clinical Psychomotor Skills: Assessment Tools for Nursing, which covers skills

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and procedures. A value pack of these two texts is available. Premium online teaching and learning tools are available on the MindTap platform.

Bluetooth Low Energy (LE) is one of the latest enhancement to Bluetooth technology and, as the name suggests, it is aimed at ultra low power devices, such as heart rate monitors, thermometers, and laboratory sensors. Due to very low power consumption, devices compliant with this standard can operate for months or even years on coin cell batteries without the need for recharging. This cutting-edge book helps you

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understand the whats, whys, and hows of Bluetooth LE. It includes a broad view of the technology, identifies the various building blocks and explains how they come together. The book explains the architecture of Bluetooth LE stack and the functionality provided by each of the layers. You find expert guidance in setting up your own system in a quick and efficient manner with inexpensive, easily available hardware and just a couple of PCs running Linux. Additionally, this practical volume features exercises and sample programs to help you get a first-hand feel for how the technology works.

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The third edition of Fundamentals of Information Technology is a 'must have' book not only for BCA and MBA students, but also for all those who want to strengthen their knowledge of computers. The additional chapter on MS Office is a comprehensive study on MS Word, MS Excel and other components of the package. This book is packed with expert advice from eminent IT professionals, in-depth analyses and practical examples. It presents a detailed functioning of hardware components besides covering the software concepts. A broad overview of Computer architecture, Data representation in the

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computer, Operating systems, Database management systems, Programming languages, etc., has also been included. An additional chapter on Mobile Computing and other state-of-the-art innovations in the IT world have been incorporated. Not only that, the latest Internet technologies have also been covered in detail. One should use this book to acquire computer literacy in terms of how data is represented in a computer, how hardware devices are integrated to get the desired results, how the computer can be networked for interchanging data and establishing communication. Each

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chapter is followed by a number of review questions.

This book constitutes the refereed proceedings of the International Symposium on Fundamentals of Software Engineering, FSEN 2007. The topics include models of programs and systems, software architectures and their description languages, object and multi-agent systems, coordination and feature interaction, component-based development, service-oriented development, model checking and theorem proving, software and hardware verification and CASE tools and tool integration.

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[Storage Area Network Fundamentals](#)

This second edition of Fundamentals of Geophysics has been completely revised and updated, and is the ideal geophysics textbook for undergraduate students of geoscience with an introductory level of knowledge in physics and mathematics. It gives a comprehensive treatment of the fundamental principles of each major branch of geophysics, and presents geophysics within the wider context of plate tectonics, geodynamics and planetary science. Basic principles are explained with the aid of numerous figures and step-by-step mathematical treatments, and important geophysical results are illustrated with examples from the scientific

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literature. Text-boxes are used for auxiliary explanations and to handle topics of interest for more advanced students. This new edition also includes review questions at the end of each chapter to help assess the reader's understanding of the topics covered and quantitative exercises for more thorough evaluation. Solutions to the exercises and electronic copies of the figures are available at www.cambridge.org/9780521859028.

The fourth edition of this classic textbook provides major updates. This edition has completely new chapters on Big Data Platforms (distributed storage systems, MapReduce, Spark, data stream processing,

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graph analytics) and on NoSQL, NewSQL and polystore systems. It also includes an updated web data management chapter that includes RDF and semantic web discussion, an integrated database integration chapter focusing both on schema integration and querying over these systems. The peer-to-peer computing chapter has been updated with a discussion of blockchains. The chapters that describe classical distributed and parallel database technology have all been updated. The new edition covers the breadth and depth of the field from a modern viewpoint. Graduate students, as well as senior undergraduate students studying computer science and other related fields will

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use this book as a primary textbook. Researchers working in computer science will also find this textbook useful. This textbook has a companion web site that includes background information on relational database fundamentals, query processing, transaction management, and computer networks for those who might need this background. The web site also includes all the figures and presentation slides as well as solutions to exercises (restricted to instructors).

Cell Immobilisation Biotechnology Biotechnology is divided into two volumes. The first volume is dedicated to fundamental aspects of cell immobilisation while the second volume deals with the diverse applications of

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this technology. The first volume, Fundamentals of Cell Immobilisation Biotechnology, comprises 26 chapters arranged into four parts: Materials for cell immobilisation/encapsulation, Methods and technologies for cell immobilisation/encapsulation, Carrier characterisation and bioreactor design, and Physiology of immobilised cells: techniques and mathematical modelling.

This innovative textbook presents the key foundational concepts for a one-semester undergraduate course in the theory of computation. It offers the most accessible and motivational course material available for undergraduate computer theory classes. Directed at

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undergraduates who may have difficulty understanding the relevance of the course to their future careers, the text helps make them more comfortable with the techniques required for the deeper study of computer science. The text motivates students by clarifying complex theory with many examples, exercises and detailed proofs. * This book is shorter and more accessible than the books now being used in core computer theory courses. * Theory of computing is a standard, required course in all computer science departments.

This volume represents a valuable collective contribution to the research and development of

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