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HKDSE 2014 Maths (Core) Past Paper Solution-Herman Yeung 2015-06-20 HKDSE 2014 Maths - Core Past Paper Detail Solution (Paper 1 & 2)

Declarative Programming and Knowledge Management-Michael Hanus 2014-07-11 This book constitutes the proceedings of the Kiel Declarative Programming Days, KDPD 2013, unifying the following conferences: the 20th International Conference on Applications of Declarative Programming and Knowledge Management (INAP 2013), the 22nd International Workshop on Functional and (Constraint) Logic Programming (WFLP 2013) and the 27th Workshop on Logic Programming (WLP 2013), held in Kiel, Germany, in September 2013. The 15 papers presented were carefully and reviewed and selected for inclusion in this book. They cover the following topics: logic programming, constraint problem solving, programmable logic solvers, functional programming and constraint programming.

Ion-Selective Electrode Reviews-J. D. R. Thomas 2013-10-22 Ion-Selective Electrode Reviews, Volume 5 is a collection of articles that covers ion-speciation. The book aims to present the advancements of the range and capabilities of selective ion-sensors. The topics covered in the selection are neutral carrier based ion-selective electrodes; reference electrodes and liquid junction effects in ion-selective electrode potentiometry; ion transfer across water/organic phase boundaries and analytical; and carbon substrate ion-selective electrodes. The text will be of great use to chemists and chemical engineers.

Industrial Instrumentation and Control Systems II-Prasad Yarlagadda 2013-07-15 Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Measurement, Instrumentation and Automation (ICMIA 2013), April 23-24, 2013, Guilin, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 503 papers are grouped as follows: Chapter 1: Intelligent Electrician, Electricity Instruments; Chapter 2: Sensors and Navigation Engineering; Chapter 3: Control System Modeling, Simulation and Modelling Technology; Chapter 4: Fluid, Flow and Hydraulic Engineering, Control Technology; Chapter 5: Mechatronics; Chapter 6: Industrial Robot, Power Systems Engineering and Automation; Chapter 7: Auto Control System; Chapter 8: CAD / CAM / CAE and Related Modelling Technologies; Chapter 9: Electric, Electronic, Microelectronic, Embedded Systems and Engineering; Chapter 10: Communication and Wireless Engineering Technology; Chapter 11: Software Development, WEB-Service Engineering and Mathematical Modelling; Chapter 12: Information Technologies and Computer Applications in Industry and Engineering; Chapter 13: Network Engineering and Network Security; Chapter 14: The Internet of Things, PDM, ERP and Supply Chain Management.

Biostatistics-Wayne W. Daniel 2018-11-13 The ability to analyze and interpret enormous amounts of data has become a prerequisite for success in allied healthcare and the health sciences. Now in its 11th edition, Biostatistics: A Foundation for Analysis in the Health Sciences continues to offer in-depth guidance toward biostatistical concepts, techniques, and practical applications in the modern healthcare setting. Comprehensive in scope yet detailed in coverage, this text helps students understand—and appropriately use—probability distributions, sampling distributions, estimation, hypothesis testing, variance analysis, regression, correlation analysis, and other statistical tools fundamental to the science and practice of medicine. Clearly-defined pedagogical tools help students stay up-to-date on new material, and an emphasis on statistical software allows faster, more accurate calculation while putting the focus on the underlying concepts rather than the math. Students develop highly relevant skills in inferential and differential statistical techniques, equipping them with the ability to organize, summarize, and interpret large bodies of data. Suitable for both graduate and advanced undergraduate coursework, this text retains the rigor required for use as a professional reference.

Into English-Rex Kevin Sadler 2004 Into English is a down-to-earth, practical textbook offering a focused approach for Year 10 students onwards. It offers a clear approach to English skills and concepts. Topics as diverse as film techniques, writing strategies, analysis of visual images and appreciation of texts are presented. The range of topics allows teachers to dip into the book as needed in the context of their own English program. Special features: focuses on the key concepts of purpose, audience, context, tone, langu

FEFLOW-Hans-Jörg G. Diersch 2013-11-22 FEFLOW is an acronym of Finite Element subsurface FLOW simulation system and solves the governing flow, mass and heat transport equations in porous and fractured media by a multidimensional finite element method for complex geometric and parametric situations including variable fluid density, variable saturation, free surface(s), multispecies reaction kinetics, non-isothermal flow and multidiffusive effects. FEFLOW comprises theoretical work, modeling experiences and simulation practice from a period of about 40 years. In this light, the main objective of the present book is to share this achieved level of modeling with all required details of the physical and numerical background with the reader. The book is intended to put advanced theoretical and numerical methods into the hands of modeling practitioners and scientists. It starts with a more general theory for all relevant flow and transport phenomena on the basis of the continuum approach, systematically develops the basic framework for important classes of problems (e.g., multiphase/multispecies non-isothermal flow and transport phenomena, discrete features, aquifer-averaged equations, geothermal processes), introduces finite-element techniques for solving the basic balance equations, in detail discusses advanced numerical algorithms for the resulting nonlinear and linear problems and completes with a number of benchmarks, applications and exercises to illustrate the different types of problems and ways to tackle them successfully (e.g., flow and seepage problems, unsaturated-saturated flow, advective-diffusion transport, saltwater intrusion, geothermal and thermohaline flow).

Proceedings of the Scientific-Practical Conference "Research and Development - 2016"-K. V. Anisimov 2017-12-04 This book is open access under a CC BY 4.0 license. It relates to the III Annual Conference hosted by The Ministry of Education and Science of the Russian Federation in December 2016. This event has summarized, analyzed and discussed the interim results, academic outputs and scientific achievements of the Russian Federal Targeted Programme "Research and Development in Priority Areas of Development of the Russian Scientific and Technological Complex for 2014-2020." It contains 75 selected papers from 6 areas considered priority by the Federal Targeted Programme: computer science, ecology & environment sciences; energy and energy efficiency; lifesciences; nanoscience & nanotechnology and transport & communications. The chapters report the results of the 3-years research projects supported by the Programme and finalized in 2016.

Physics Exam-builder for HKDSE-Y. M. Yeung 2015-09-07 This book covers the elective module "Astronomy and Space Science" of the HKDSE (the Hong Kong Diploma of Secondary Education Examination) Physics Examination. It contains comprehensive notes of the relevant knowledge for the examination, so that it can be used as a coursebook as well. It contains a wealth of multiple choice questions and structured questions in examination format, with detailed solutions, to help students consolidate their concepts and master their skills. The book is written in accordance to the Fine-tuned HKDSE Syllabus, suitable for the 2016 HKDSE Physics Examination and onward.

Engineering Vibrations-William J. Bottega 2014-12-11 A thorough study of the oscillatory and transient motion of mechanical and structural systems, Engineering Vibrations, Second Edition presents vibrations from a unified point of view, and builds on the first edition with additional chapters and sections that contain more advanced, graduate-level topics. Using numerous examples and case studies to r

Natural Resource and Environmental Economics-Roger Perman 2013-02-07 Now in its fourth edition, Natural Resources and Environmental Economics, provides comprehensive and contemporary analysis of the major areas of natural resource and environmental economics. All chapters have been fully updated in light of new developments and changes in the subject, and provide a balance of theory, applications and examples to give a rigorous grounding in the economic analysis of the resource and environmental issues that are increasingly prominent policy concerns. This text is suitable for second and third year undergraduate and postgraduate students of economics.

Network Information Theory-Abbas El Gamal 2011-12-08 This comprehensive treatment of network information theory and its applications provides the first unified coverage of both classical and recent results. With an approach that balances the introduction of new models and new coding techniques, readers are guided through Shannon's point-to-point information theory, single-hop networks, multihop networks, and extensions to distributed computing, secrecy,

wireless communication, and networking. Elementary mathematical tools and techniques are used throughout, requiring only basic knowledge of probability, whilst unified proofs of coding theorems are based on a few simple lemmas, making the text accessible to newcomers. Key topics covered include successive cancellation and superposition coding, MIMO wireless communication, network coding, and cooperative relaying. Also covered are feedback and interactive communication, capacity approximations and scaling laws, and asynchronous and random access channels. This book is ideal for use in the classroom, for self-study, and as a reference for researchers and engineers in industry and academia.

Elements of Descriptive Geometry-Albert Ensign Church 1902

Transport Theory-James J. Duderstadt 1979 Problems after each chapter

Microbial Biotechnology-Jayanta Kumar Patra 2018-02-14 This edited book, is a collection of 25 chapters describing the recent advancements in the application of microbial technology in the food and pharmacology sector. The main focus of this book is application of microbes, food preservation techniques utilizing microbes, probiotics, seaweeds, algae, enzymatic abatement of urethane in fermentation of beverages, bioethanol production, pesticides, probiotic biosurfactants, drought tolerance, synthesis of application of oncolytic viruses in cancer treatment, microbe based metallic nanoparticles, agro chemicals, endophytes, metabolites, antibiotics etc. This book highlighted the significant aspects of the vast subject area of microbial biotechnology and their potential applications in food and pharmacology with various topics from eminent experts around the World. This book would serve as an excellent reference book for researchers and students in the Food Science, Food Biotechnology, Microbiology and Pharmaceutical fields.

Basics of Applied Stochastic Processes-Richard Serfozo 2009-01-24 Stochastic processes are mathematical models of random phenomena that evolve according to prescribed dynamics. Processes commonly used in applications are Markov chains in discrete and continuous time, renewal and regenerative processes, Poisson processes, and Brownian motion. This volume gives an in-depth description of the structure and basic properties of these stochastic processes. A main focus is on equilibrium distributions, strong laws of large numbers, and ordinary and functional central limit theorems for cost and performance parameters. Although these results differ for various processes, they have a common trait of being limit theorems for processes with regenerative increments. Extensive examples and exercises show how to formulate stochastic models of systems as functions of a system's data and dynamics, and how to represent and analyze cost and performance measures. Topics include stochastic networks, spatial and space-time Poisson processes, queueing, reversible processes, simulation, Brownian approximations, and varied Markovian models. The technical level of the volume is between that of introductory texts that focus on highlights of applied stochastic processes, and advanced texts that focus on theoretical aspects of processes.

Markov Processes and Applications-Etienne Pardoux 2008-11-20 "This well-written book provides a clear and accessible treatment of the theory of discrete and continuous-time Markov chains, with an emphasis towards applications. The mathematical treatment is precise and rigorous without superfluous details, and the results are immediately illustrated in illuminating examples. This book will be extremely useful to anybody teaching a course on Markov processes."

Jean-François Le Gall, Professor at Université de Paris-Orsay, France. Markov processes is the class of stochastic processes whose past and future are conditionally independent, given their present state. They constitute important models in many applied fields. After an introduction to the Monte Carlo method, this book describes discrete time Markov chains, the Poisson process and continuous time Markov chains. It also presents numerous applications including Markov Chain Monte Carlo, Simulated Annealing, Hidden Markov Models, Annotation and Alignment of Genomic sequences, Control and Filtering, Phylogenetic tree reconstruction and Queuing networks. The last chapter is an introduction to stochastic calculus and mathematical finance. Features include: The Monte Carlo method, discrete time Markov chains, the Poisson process and continuous time jump Markov processes. An introduction to diffusion processes, mathematical finance and stochastic calculus. Applications of Markov processes to various fields, ranging from mathematical biology, to financial engineering and computer science. Numerous exercises and problems with solutions to most of them

Modern Electrodynamics-Andrew Zangwill 2013 An engaging writing style and a strong focus on the physics make this graduate-level textbook a must-have for electromagnetism students.

Twisted Innocence-Terri Blackstock 2015-02-03 Holly Cramer's past choices have finally caught up to her, but she never expected them to endanger her baby. Though Holly's stumbled through most of her adult life as a party girl, she longs to live a more stable life for her daughter. Then police show up to question her about the whereabouts of Creed Kershaw, Lily's father. She has kept his identity a secret from friends and family—she never even told him about the pregnancy. Now he's a person of interest in a drug-related murder case. Determined to keep him out of their lives and turn him over to police, Holly uses her private investigating skills to search for him. But her bravado backfires when he turns the tables and takes her and the baby hostage. As desperate hours tick by, Holly realizes his connection to Leonard Miller—the man who has gunned down several members of her family. Creed claims he's innocent and that Miller is after him too. His gentleness with Lily moves her, but she can't trust a man who has held her at gunpoint . . . even if he reminds her so much of herself. Dangers old and new threaten Holly and her baby, and lives are demanded as sacrifices for love. Through a complex web of mistakes and regret, redemption is the one hope Holly has left to hold on to.

Introduction to Quantum Mechanics-David J. Griffiths 2019-11-20 Changes and additions to the new edition of this classic textbook include a new chapter on symmetries, new problems and examples, improved explanations, more numerical problems to be worked on a computer, new applications to solid state physics, and consolidated treatment of time-dependent potentials.

Soilborne Microbial Plant Pathogens and Disease Management, Volume One-P. Narayanasamy 2019-10-24 Soilborne microbial plant pathogens including oomycetes, fungi, bacteria and viruses cause several economically important destructive diseases and the symptoms of infection can be recognized only after the pathogen has invaded many tissues primarily vascular tissues of susceptible plants. This condition places formidable challenges in investigating different aspects of host-microbial pathogen interactions. Early detection of infection and precise identification, differentiation, and quantification of the microbial plant pathogens in plants, soil and water sources are essential requirements for development of effective tactics to reduce the incidence and spread of the diseases caused by them. As the microbial plant pathogens differ in their virulence and sensitivity to the environment and chemicals applied, it is imperative to assess the extent of variability in the concerned pathogens. This first volume of a two-volume set introduces disease-causing microorganisms including oomycetes, fungi, bacteria, and viruses found in soils. It focuses on the biology, detection, and identification of soilborne bacterial, fungal, and viral plant pathogens. This volume discusses various techniques based on biological, immunological and genetic properties of the pathogens indicating their advantages and limitations for selecting the appropriate technique to fulfill the requirements. Features: Presents techniques useful for detection, identification, quantification of microbial plant pathogens in plants, soil, and irrigation water from waterbodies. Highlights subversive activities of viruses, resulting in the breakdown of host defense systems. Discusses RNA silencing in infected plants by viruses and posttranscriptional gene silencing (PTGS) functioning as an endogenous mechanism in plants against virus infection. Presents information on methods of assessment of genetic variability and sensitivity of microbial plant pathogens to chemicals and adverse environmental conditions.

Reinforced Concrete Design-S. U. Pillai 2016

Brownian Motion, Martingales, and Stochastic Calculus-Jean-François Le Gall 2016-04-28 This book offers a rigorous and self-contained presentation of stochastic integration and stochastic calculus within the general framework of continuous semimartingales. The main tools of stochastic calculus, including Itô's formula, the optional stopping theorem and Girsanov's theorem, are treated in detail alongside many illustrative examples. The book also contains an introduction to Markov processes, with applications to solutions of stochastic differential equations and to connections between Brownian motion and partial differential equations. The theory of local times of semimartingales is discussed in the last chapter. Since its invention by Itô, stochastic calculus has proven to be one of the most important techniques of modern probability theory, and has been used in the most recent theoretical advances as well as in applications to other fields such as mathematical finance. Brownian Motion, Martingales, and Stochastic Calculus provides a strong theoretical background to the reader interested in such developments. Beginning graduate or advanced undergraduate students will benefit from this detailed approach to an essential area of probability theory. The emphasis is on concise and efficient presentation, without any concession to mathematical rigor. The material has been taught by the author for several years in graduate courses at two of the most prestigious French universities. The fact that proofs are given with full details makes the book particularly suitable for self-study. The numerous exercises help the reader to get acquainted with the tools of stochastic calculus.

Emerging Practices in Scholarship of Learning and Teaching in a Digital Era-Siu Cheung Kong 2017-02-22 In this book, we put forward a holistic conceptual framework for implementing Scholarship of Learning and Teaching (SoLT) in higher education. Unlike previous SoLT studies, which usually focus on a specific aspect, here various aspects are integrated into a holistic framework. Further, it identifies three main stakeholders, namely, the higher education institution, teaching staff, and students. These stakeholders are in turn connected by four interlocking themes: staff professional development, enhancement of student learning experiences, assessment, and digital technologies. Presenting chapters that address these four themes, this book supports the advancement of SoLT in higher education in relation to existing theories and emerging practices. By helping academics and leaders in higher education to

implement SoLT for the improvement of student learning and teaching practices, it also makes a valuable contribution to the field of teacher education.

Mathematical Modelling and Computer Simulation of Activated Sludge Systems-Jacek Makinia 2010 This international, comprehensive guide to modeling and simulation studies in activated sludge systems leads the reader through the entire modeling process - from building a mechanistic model to applying the model in practice. Mathematical Modelling and Computer Simulation of Activated Sludge Systems will: \* enhance the readers' understanding of different model concepts for several (most essential) biochemical processes in the advanced activated sludge systems, \* provide extensive and up-to-date coverage of experimental methodologies of a complete model parameter estimation (longitudinal dispersion coefficient, influent wastewater fractions, kinetic and stoichiometric coefficients, settling velocity, etc.), \* summarize and critically review the ranges of model parameters reported in literature, \* compare the existing protocols aiming at a systematic organization of the simulation study, \* outline the capabilities of the existing commercial simulators, \* present documented, successful case studies of practical model applications as a guide while planning a simulation study. The book is organized to provide a general background and some basic definitions, then theoretical aspects of modeling and finally, the issues important for practical model applications. Mathematical Modelling and Computer Simulation of Activated Sludge Systems can be used as supplementary material for a graduate level wastewater engineering courses and is useful to a wide audience of researchers and practitioners. Experienced model users such as consultants, trained plant management staff may find the book useful as a reference and as a resource for self-guided study.

A Geek in Korea-Daniel Tudor 2014-09-09 For every fan of K-Pop music, Korean Wave dramas and Kimchi—or anyone intrigued by Korea and Korean culture—A Geek in Korea is a hip, new guide to the land of the Samsung smartphone and Gangnam Style. Author Dan Tudor first arrived in Korea on the eve of the 2002 World Cup when South Korea played Italy in the finals. What he saw inspired him to return and work in Korea. He served as The Economist magazine's Korea correspondent for three years, and he writes regular columns for the national daily JoongAng Ilbo newspaper. Along the way, he has developed a great love and admiration for Korean culture and the Korean people. A Geek in Korea reinvents the culture guide for the Internet age. Packed with articles and photographs, it covers all the touchstones of Korean culture—from Buddhism and Confucianism to chapters on the traditional arts and disciplines like Taekwondo. There are chapters on cultural code words and norms; personal relationships; business and technology; and symbols and practices that are peculiarly Korean. A number of chapters are devoted to Korean pop culture, with attention to the stars, idols, and urban subcultures associated with them. For visitors to Korea, the author includes a mini-guide to his favorite neighborhoods in Seoul and other places of outstanding interest. Spotlighting the originality and creativity of the Koreans, debunking myths about them, and answering nagging questions like why they're so obsessed with education and success—Tudor has created the perfect book for the growing ranks of Koreaphiles in this inspired, insightful, and highly informative guide.

Radiation Effects in Polymeric Materials-Vijay Kumar 2019-02-09 This book provides an introduction of how radiation is processed in polymeric materials, how materials properties are affected and how the resulting materials are analyzed. It covers synthesis, characterization, or modification of important materials, e.g. polycarbonates, polyamides and polysaccharides, using radiation. For example, a complete chapter is dedicated to the characterization of biodegradable polymers irradiated with low and heavy ions. This book will be beneficial to all polymer scientists in the development of new macromolecules and to all engineers using these materials in applications. It summarizes the fundamental knowledge and latest innovations in research fields from medicine to space.

Optical Properties of Solids-F. Abelès 1972

Beyond Databases, Architectures and Structures-Stanisław Kozielski 2015-04-28 This book constitutes the refereed proceedings of the 11th International Conference entitled Beyond Databases, Architectures and Structures, BDAS 2015, held in Ustroń, Poland, in May 2015. This book consists of 53 carefully revised selected papers that are assigned to 8 thematic groups: database architectures and performance; data integration, storage and data warehousing; ontologies and semantic web; artificial intelligence, data mining and knowledge discovery; image analysis and multimedia mining; spatial data analysis; database systems development; application of database systems.

Evaluating "literacy for Development" Projects, Programs, and Campaigns-H. S. Bholá 1990 This book presents a comprehensive treatment of the subject of evaluation as applied to literacy programs, covering evaluation theory, planning, and practice. Part I discusses questions of definition, context, objectives, and functions of evaluation and presents descriptions and analyses of evaluation paradigms and models. In Part II, the interrelated processes of evaluation planning and management are discussed, and evaluation planning and management approaches are explained and demonstrated. Parts III, IV, and V focus on the three components of the evaluation management approach discussed in Part II: management information systems (MIS), naturalistic evaluation (NE), and rationalistic evaluation (RE). Chapters in these parts cover: (1) theory, questions, and design of an MIS, NE, or RE; (2) writing a proposal for an MIS or for an evaluation study in the naturalistic or rationalistic mode; (3) tools and techniques of the three approaches; and (4) writing periodical and special reports. Part VI discusses the politics of evaluation, the need to establish evaluation standards for meta-evaluations, and the related question of evaluators' training. A glossary is appended. (YLB)

Basic Linear Algebra-Thomas S. Blyth 2013-03-14 Basic Linear Algebra is a text for first year students, working from concrete examples towards abstract theorems, via tutorial-type exercises. The book explains the algebra of matrices with applications to analytic geometry, systems of linear equations, difference equations, and complex numbers. Linear equations are treated via Hermite normal forms, which provides a successful and concrete explanation of the notion of linear independence. Another highlight is the connection between linear mappings and matrices, leading to the change of basis theorem which opens the door to the notion of similarity. The authors are well known algebraists with considerable experience of teaching introductory courses on linear algebra to students at St Andrews. This book is based on one previously published by Chapman and Hall, but it has been extensively updated to include further explanatory text and fully worked solutions to the exercises that all 1st year students should be able to answer.

Foundations of Quantum Theory-Klaas Landsman 2017-05-11 This book studies the foundations of quantum theory through its relationship to classical physics. This idea goes back to the Copenhagen Interpretation (in the original version due to Bohr and Heisenberg), which the author relates to the mathematical formalism of operator algebras originally created by von Neumann. The book therefore includes comprehensive appendices on functional analysis and C\*-algebras, as well as a briefer one on logic, category theory, and topos theory. Matters of foundational as well as mathematical interest that are covered in detail include symmetry (and its "spontaneous" breaking), the measurement problem, the Kochen-Specker, Free Will, and Bell Theorems, the Kadison-Singer conjecture, quantization, indistinguishable particles, the quantum theory of large systems, and quantum logic, the latter in connection with the topos approach to quantum theory. This book is Open Access under a CC BY licence.

Materials and Acoustics Handbook-Michel Bruneau 2013-05-10 Written by a group of acoustics and vibration specialists, this book studies the acoustic and vibrating phenomena that occur in diverse materials used for all kinds of purposes. The first part studies the fundamental aspects of propagation: analytical, numerical and experimental. The second part outlines industrial and medical applications. Covering a wide range of topics that associate materials science with acoustics, this will be of invaluable use to researchers, engineers, or practitioners in this field, as well as students in acoustics, physics, and mechanics.

Security in Computing and Communications-Peter Mueller 2016-09-16 This book constitutes the refereed proceedings of the 4th International Symposium on Security in Computing and Communications, SSCC 2016, held in Jaipur, India, in September 2016. The 23 revised full papers presented together with 16 short papers and an invited paper were carefully reviewed and selected from 136 submissions. The papers are organized in topical sections on cryptosystems, algorithms, primitives; security and privacy in networked systems; system and network security; steganography, visual cryptography, image forensics; applications security.

Handbook of Income Distribution-Anthony B. Atkinson 2014-12-30 What new theories, evidence, explanations, and policies have shaped our studies of income distribution in the 21st century? Editors Tony Atkinson and Francois Bourguignon assemble the expertise of leading authorities in this survey of substantive issues. In two volumes they address subjects that were not covered in Volume 1 (2000), such as education, health and experimental economics; and subjects that were covered but where there have been substantial new developments, such as the historical study of income inequality and globalization. Some chapters discuss future growth areas, such as inheritance, the links between inequality and macro-economics and finance, and the distributional implications of climate change. They also update empirical advances and major changes in the policy environment. The volumes define and organize key areas of income distribution studies Contributors focus on identifying newly developing questions and opportunities for future research The authoritative articles emphasize the ways that income mobility and inequality studies have recently gained greater political significance

Introduction to Linear Algebra-Gilbert Strang 2016-08-11 Linear algebra is something all mathematics undergraduates and many other students, in subjects ranging from engineering to economics, have to learn. The fifth edition of this hugely successful textbook retains all the qualities of earlier editions while at the same time seeing numerous minor improvements and major additions. The latter include: • A new chapter on singular values and singular vectors, including ways to analyze a matrix of data • A revised chapter on computing in linear algebra, with professional-level algorithms and code that can be downloaded for a variety of languages • A new section on linear algebra and

cryptography • A new chapter on linear algebra in probability and statistics. A dedicated and active website also offers solutions to exercises as well as new exercises from many different sources (e.g. practice problems, exams, development of textbook examples), plus codes in MATLAB, Julia, and Python.

Electromagnetic Fields and Waves-Magdy F. Iskander 2000-04-01

XoveTIC 2019-Alberto Alvarellos González 2019-09-02 This issue of Proceedings gathers papers presented at XOVETIC2019 (A Coruña, Spain, 5-6 September 2019), a conference with the main goal of bringing together young researchers working in big data, artificial intelligence, Internet of Things, HPC(High-performance computing), cybersecurity, bioinformatics, natural language processing, 5G and others areas from the field of ICT (Information Communications Technology), and offering a platform to present the results of their research to a national audience in Galicia and north of Portugal. This second edition aims to serve as the basis of this event, which will be consolidated over time and acquire international projection. The conference is co-funded by Xunta de Galicia and European Union. European Regional Development Fund (ERDF).

Proceedings of the 8th International Conference on Sciences of Electronics, Technologies of Information and Telecommunications (SETIT'18)-Med Salim Bouhlef 2019-08-01 This two-volume book presents an unusually diverse selection of research papers, covering all major topics in the fields of information and communication technologies and related sciences. It provides a wide-angle snapshot of current themes in information and power engineering, pursuing a cross-disciplinary approach to do so. The book gathers revised contributions that were presented at the 2018 International Conference: Sciences of Electronics, Technologies of Information and Telecommunication (SETIT'18), held on 20-22 December 2018 in Hammamet, Tunisia. This eighth installment of the event attracted a wealth of submissions, and the papers presented here were selected by a committee of experts and underwent additional, painstaking revision. Topics covered include: · Information Processing · Human-Machine Interaction · Computer Science · Telecommunications and Networks · Signal Processing · Electronics · Image and Video This broad-scoped approach is becoming increasingly popular in scientific publishing. Its aim is to encourage scholars and professionals to overcome disciplinary barriers, as demanded by current trends in the industry and in the consumer market, which are rapidly leading toward a convergence of data-driven applications, computation, telecommunication, and energy awareness. Given its coverage, the book will benefit graduate students, researchers and practitioners who need to keep up with the latest technological advances.

Land Applications of Radar Remote Sensing-Damien Closson 2014-06-11 The aim of this book is to demonstrate the use of SAR data in three application domains, i.e. land cover (Part II), topography (Part III), and land motion (Part IV). These are preceded by Part I, where an extensive and complete review on speckle and adaptive filtering is provided, essential for the understanding of SAR images. Part II is dedicated to land cover mapping. Part III is devoted to the generation of Digital Elevation Models based on radargrammetry and on a wise fusion (by considering sensor characteristic and acquisition geometry) of interferometric and photogrammetric elevation data. Part IV provides a contribution to three applications related to land motion.

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