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Societal Impact of Spaceflight
Springer Science & Business
Media

DIVComprehensive treatment
offers 115 solved problems
and exercises to promote
understanding of vector and
tensor theory, basic
kinematics, balance laws, field
equations, jump conditions,
and constitutive equations. /div

*Soft Computing and
Intelligent Systems*

Design McGraw Hill
Professional

Grid converters are
the key player in
renewable energy
integration. The high
penetration of
renewable energy
systems is calling for

new more stringent grid requirements for requirements. As a photovoltaic and wind consequence, the grid power systems, the book converters should be able to exhibit discusses these other advanced functions relevant issues: modern like: dynamic control grid inverter topologies for of active and reactive photovoltaic and wind power, operation within turbines islanding a wide range of voltage detection methods for and frequency, voltage photovoltaic systems ride-through synchronization capability, reactive techniques based on current injection second order during faults, grid generalized integrators services support. This (SOGI) advanced book explains the synchronization topologies, modulation techniques with robust and control of grid operation under grid converters for both unbalance condition photovoltaic and wind grid filter design and power applications. In active damping addition to power techniques power electronics, this book control under grid focuses on the specific fault conditions, applications in considering both photovoltaic wind power positive and negative systems where grid sequences Grid condition is an Converters for essential factor. With Photovoltaic and Wind a review of the most Power Systems is recent grid intended as a

coursebook for graduated students with a background in electrical engineering and also for professionals in the evolving renewable energy industry. For people from academia interested in adopting the course, a set of slides is available for download from the website. www.wiley.com/go/grid_converters

Handbook on Knowledge Management 1 Houghton Mifflin Harcourt

Significant progress has been made in the development of neural prostheses for restoration of human functions and improvement of the quality of life. Biomedical engineers and neuroscientists around the world are working to improve the design and performance of existing devices and to develop novel devices for artificial vision, artificial limbs, and brain-machine interfaces. This book, *Implantable Neural Prostheses 2: Techniques and Engineering Approaches*, is part two of a two-volume sequence that describes state-of-the-art advances in techniques associated with implantable neural prosthetic devices. The techniques covered include biocompatibility and biostability, hermetic packaging, electrochemical techniques for neural stimulation applications, novel electrode materials and testing, thin-film flexible microelectrode arrays, in situ characterization of microelectrode arrays, chip-size thin-film device encapsulation, microchip-

embedded capacitors and microelectronics for recording, stimulation, and wireless telemetry. The design process in the development of medical devices is also discussed. Advances in biomedical engineering, microfabrication technology, and neuroscience have led to improved medical-device designs and novel functions. However, many challenges remain. This book focuses on the engineering approaches, R&D advances, and technical challenges of medical implants from an engineering perspective. We are grateful to leading researchers from academic institutes, national laboratories, as well as design engineers and professionals from the medical device industry who have contributed to the book. Part one of this series covers designs of implantable neural prosthetic devices and their clinical applications.

Games, Strategies and Decision Making Woodhead Publishing

The goals of this text are to develop the skills and an appreciation for the richness and versatility of modern time series analysis as a tool for analyzing dependent data. A useful feature of the presentation is the inclusion of nontrivial data sets illustrating the richness of potential applications to problems in the biological, physical, and social sciences as well as medicine. The text presents a balanced and comprehensive treatment of both time and frequency

domain methods with an emphasis on data analysis. Numerous examples using data illustrate solutions to problems such as discovering natural and anthropogenic climate change, evaluating pain perception experiments using functional magnetic resonance imaging, and the analysis of economic and financial problems. The text can be used for a one semester/quarter introductory time series course where the prerequisites are an understanding of linear regression, basic calculus-based probability skills, and math skills at the high school level. All of the numerical examples use the R statistical package without assuming that the reader has previously used the software. Robert H. Shumway is Professor Emeritus of Statistics, University of California, Davis. He is a Fellow of the American Statistical Association and has won the American Statistical Association Award for Outstanding Statistical Application. He is the author of numerous texts and served on editorial boards such as the *Journal of Forecasting* and the *Journal of the American Statistical Association*. David S. Stoffer is Professor of Statistics, University of Pittsburgh. He is a Fellow of the American Statistical Association and has won the American Statistical Association Award for Outstanding Statistical

Application. He is currently on the editorial boards of the Journal of Forecasting, the Annals of Statistical Mathematics, and the Journal of Time Series Analysis. He served as a Program Director in the Division of Mathematical Sciences at the National Science Foundation and as an Associate Editor for the Journal of the American Statistical Association and the Journal of Business & Economic Statistics. Computer and Computing Technologies in Agriculture II, Volume 3 CRC Press

In order for food businesses, scientists and policy makers to develop successful products, services and policies, it is essential that they understand food consumers and how they decide which products to buy. Food consumer behaviour is the result of various factors, including the motivations of different consumers, the attributes of specific foods, and the environment in which food choices occur. Recognising diversity between individual consumers, different stages of life, and different cultural

contexts is increasingly important as markets become increasingly diverse and international. The book begins with a comprehensive introduction and analysis of the key drivers of consumer food choices, such as the environment and sensory product features. Part two examines the role of consumers' attitudes towards quality and marketing, and their views on food preparation and technology. Part three covers cultural and individual differences in food choice as well as addressing potentially influential factors such as age and gender. Important topics such as public health and methods to change consumers' preferences for unhealthy foods are discussed in part four. The final section concludes with advice on developing coherent safety policies and the consumers' responsibility for food production and consumption.

Understanding consumers of food products is a standard reference for all those in the food industry concerned with product development and regulation. Develop an understanding of buyer behaviour to assist developing successful products Recognise the diversity between consumers and learn how to cater for their needs Covers cultural and individual differences in food choice

The NRCA

Waterproofing Manual
CRC Press

This book is dedicated to the fundamental question: How do media and communications practices within European cultures change with their environment? This volume consists of the intellectual work of the 2015 European Media and Communication Doctoral Summer School, organized in cooperation with the European Communication Research and Education Association (ECREA) and a consortium of 21

European partner universities at the ZeMKI, the Centre for Media, Communication and Information Research of the University of Bremen, Germany. The chapters cover relevant research topics, structured into four sections: ?Policies and politics of communication?, ?Civil participation in and through the media?, ?Media representations and usages? and ?On methods?. The Summer School brings together a group of highly qualified doctoral students as well as senior researchers and professors from a diversity of European countries. The main objective of the fourteen-day summer school is to organize an innovative learning process at doctoral level, focusing primarily on enhancing the quality of individual dissertation projects.

Mechatronic Systems
Diversions Books

Not all customers are created equal. Despite what the tired old adage says, the customer is not always right. Not all customers deserve your

best efforts: in the world of customer centricity, there are good customers...and then there is pretty much everybody else. Upending some of our most fundamental beliefs, renowned behavioral data expert Peter Fader, Co-Director of The Wharton Customer Analytics Initiative, helps businesses radically rethink how they relate to customers. He provides insights to help you revamp your performance metrics, product development, customer relationship management and organization in order to make sure you focus directly on the needs of your most valuable customers and increase profits for the long term.

Customer Centricity John Wiley & Sons

"The edge of the sea is a strange and beautiful place." A book to be read for pleasure as well as a practical identification guide, *The Edge of the Sea* introduces a world of teeming life where the sea meets the land. A new generation of readers is discovering why Rachel Carson's books have become cornerstones of the environmental and conservation movements.

New introduction by Sue Hubbell. (A Mariner Reissue)

Introduction to Nanoscience and Nanotechnology Wiley

The first comprehensive reference on mechatronics, *The Mechatronics Handbook* was quickly embraced as the gold standard in the field. From washing machines, to coffeemakers, to cell phones, to the ubiquitous PC in almost every household, what, these days, doesn't take advantage of mechatronics in its design and function?

In the scant five years since the initial publication of the handbook, the latest generation of smart products has made this even more obvious. Too much material to cover in a single volume Originally a single-volume reference, the handbook has grown along with the field. The need for easy access to new material on rapid changes in technology, especially in computers and software, has made the single volume format unwieldy. The second edition is offered as two easily digestible books, making the material not only more accessible, but also more focused.

Completely revised and updated, Robert Bishop's seminal work is still the most exhaustive, state-of-the-art treatment of the field available.

Electrospun Nanofibers
CRC Press

An in-depth look into

Mac OS X and iOS kernels Powering Macs, iPhones, iPads and more, OS X and iOS are becoming ubiquitous. When it comes to documentation, however, much of them are shrouded in mystery. Cocoa and Carbon, the application frameworks, are neatly described, but system programmers find the rest lacking. This indispensable guide illuminates the darkest corners of those systems, starting with an architectural overview, then drilling all the way to the core. Provides you with a top down view of OS X and iOS Walks you through the phases of system startup—both Mac (EFi) and mobile (iBoot) Explains how processes, threads, virtual memory, and filesystems are maintained Covers the security architecture Reviews the internal Apis used by the system—BSD and Mach Dissects the kernel, XNU, into its sub components: Mach, the BSD Layer, and I/o kit, and explains each in

detail Explains the inner workings of device drivers From architecture to implementation, this book is essential reading if you want to get serious about the internal workings of Mac OS X and iOS. Antarctic Journal of the United States Woodhead Publishing Simplified and reorganized, while avoiding much of the technical detail of Longman grammar of spoken and written English (LGSWE). International Business John Wiley & Sons The Information Age: An Anthology on Its Impacts and Consequences was originally prepared by The Center for Advanced Concepts, Technologies, and Information Strategies of the Institute for National Strategic Studies, National Defense University. The original four volumes have been combined into one volume for this printing. They are: Part One: The Information and Communication Revolution Part Two: Business, Commerce, and Services Part Three: Government and the Military Part Four:

International Affairs Phononic Crystals Springer As the most comprehensive reference work dealing with knowledge management (KM), this work, consisting of 2 volumes, is essential for the library of every KM practitioner, researcher, and educator. Written by an international array of KM luminaries, its approx. 60 chapters approach knowledge management from a wide variety of perspectives ranging from classic foundations to cutting-edge thought, informative to provocative, theoretical to practical, historical to futuristic, human to technological, and operational to strategic. Novices and experts alike will refer to the authoritative and stimulating content again and again for years to come. Office of Aerospace Research Addison Wesley Longman Mechatronics, the synergistic blend of mechanics, electronics, and computer science, has evolved over the past twenty five years, leading to a novel stage of engineering design. By integrating the best design practices with the most advanced technologies, mechatronics aims at realizing high-quality products, guaranteeing at the same time a substantial reduction of time and costs

of manufacturing.

Mechatronic systems are manifold and range from machine components, motion generators, and power producing machines to more complex devices, such as robotic systems and transportation vehicles. With its twenty chapters, which collect contributions from many researchers worldwide, this book provides an excellent survey of recent work in the field of mechatronics with applications in various fields, like robotics, medical and assistive technology, human-machine interaction, unmanned vehicles, manufacturing, and education. We would like to thank all the authors who have invested a great deal of time to write such interesting chapters, which we are sure will be valuable to the readers. Chapters 1 to 6 deal with applications of mechatronics for the development of robotic systems. Medical and assistive technologies and human-machine interaction systems are the topic of chapters 7 to 13. Chapters 14 and 15 concern mechatronic systems for autonomous vehicles. Chapters 16-19 deal with mechatronics in manufacturing contexts. Chapter 20 concludes the book, describing a method for the installation of mechatronics education in schools.

Principles and

Applications of Electrical Engineering World Scientific

Mark Cuban shares his wealth of experience and business savvy in his first published book, **HOW TO WIN AT THE SPORT OF BUSINESS**. "It's New Year's resolution time, and Mark Cuban's new book offers the rationale for a good one." —**BUSINESS INSIDER** Using the greatest material from his popular Blog Maverick, Cuban has collected and updated his postings on business and life to provide a catalog of insider knowledge on what it takes to become a thriving entrepreneur. He tells his own rags-to-riches story of how he went from selling powdered milk and sleeping on friends' couches to owning his own company and becoming a multi-billion dollar success story. His unconventional yet highly effective ideas on how to build a successful business offer entrepreneurs at any stage of their careers a huge edge over their competitors. "In short, [HOW TO WIN AT THE SPORT OF BUSINESS] exceeded...expectations. Short chapters...got right

to the point and were not filled with 'stuffing'." —**HUFFINGTON POST** Differential Forms and Applications Courier Corporation Electrospun Nanofibers covers advances in the electrospinning process including characterization, testing and modeling of electrospun nanofibers, and electrospinning for particular fiber types and applications. Electrospun Nanofibers offers systematic and comprehensive coverage for academic researchers, industry professionals, and postgraduate students working in the field of fiber science. Electrospinning is the most commercially successful process for the production of nanofibers and rising demand is driving research and development in this field. Rapid progress is being made both in terms of the electrospinning process and in the production of nanofibers with superior chemical and physical properties. Electrospinning is becoming more efficient and more specialized in order to produce particular fiber types such as bicomponent and composite fibers, patterned and 3D nanofibers, carbon nanofibers and nanotubes, and nanofibers derived from chitosan. Provides systematic and comprehensive coverage of the manufacture,

properties, and applications of nanofibers Covers recent developments in nanofibers materials including electrospinning of bicomponent, chitosan, carbon, and conductive fibers Brings together expertise from academia and industry to provide comprehensive, up-to-date information on nanofiber research and development Offers systematic and comprehensive coverage for academic researchers, industry professionals, and postgraduate students working in the field of fiber science

The Information Age
BoD – Books on
Demand

Phononic crystals are artificial periodic structures that can alter efficiently the flow of sound, acoustic waves, or elastic waves. They were introduced about twenty years ago and have gained increasing interest since then, both because of their amazing physical properties and because of their potential applications. The topic of phononic crystals stands as the cross-road of physics (condensed matter physics, wave propagation in

inhomogeneous and periodic media) and engineering (acoustics, ultrasonics, mechanical engineering, electrical engineering). Phononic crystals cover a wide range of scales, from meter-size periodic structures for sound in air to nanometer-size structures for information processing or thermal phonon control in integrated circuits. Phononic crystals have a definite relation with the topic of photonic crystals in optics. The marriage of phononic and photonic crystals also provides a promising structural basis for enhanced sound and light interaction. As the topic is getting popular, it is nowadays presented and discussed at various international conferences. After the first ten years during which the topic has remained mainly theoretical with a few proof-of-concept demonstrations in the literature, the evolution has been towards applications, instrumentation, and novel designs. The

physical explanations for various effects are now well understood and efficient numerical methods and analysis tools have been developed. The book contains a comprehensive set of finite element model (FEM) scripts for solving basic phononic crystal problems. The scripts are short, easy to read, and efficient, allowing the reader to generate for him(her)self band structures for 2D and 3D phononic crystals, to compute Bloch waves, waveguide and cavity modes, and more. Grid Converters for Photovoltaic and Wind Power Systems Springer Science & Business Media The papers in this volume comprise the refereed proceedings of the Second IFIP International Conference on Computer and Computing Technologies in Agriculture (CCTA2008), in Beijing, China, 2008. The conference on the Second IFIP

International Conference on Computer and Computing Technologies in Agriculture (CCTA 2008) is cooperatively sponsored and organized by the China Agricultural University (CAU), the National Engineering Research Center for Information Technology in Agriculture (NERCITA), the Chinese Society of Agricultural Engineering (CSAE), International Federation for Information Processing (IFIP), Beijing Society for Information Technology in Agriculture, China and Beijing Research Center for Agro-products Test and Farmland Inspection, China. The related departments of China's central government bodies like: Ministry of Science and Technology, Ministry of Industry and Information Technology, Ministry of Education and the Beijing Municipal Natural Science Foundation, Beijing Academy of

Agricultural and Forestry Sciences, etc. have greatly contributed and supported to this event. The conference is as good platform to bring together scientists and researchers, agronomists and information engineers, extension servers and entrepreneurs from a range of disciplines concerned with impact of Information technology for sustainable agriculture and rural development. The representatives of all the supporting organizations, a group of invited speakers, experts and researchers from more than 15 countries, such as: the Netherlands, Spain, Portugal, Mexico, Germany, Greece, Australia, Estonia, Japan, Korea, India, Iran, Nigeria, Brazil, China, etc.

The Edge of the Sea
Springer Science & Business Media

For a sophomore-level course in Linear Algebra. Based on the recommendations of the Linear Algebra Curriculum Study

Group, this introduction to linear algebra offers a matrix-oriented approach with more emphasis on problem solving and applications. Throughout the text, use of technology is encouraged. The focus is on matrix arithmetic, systems of linear equations, properties of Euclidean n-space, eigenvalues and eigenvectors, and orthogonality. Although matrix-oriented, the text provides a solid coverage of vector spaces.

The Mechatronics Handbook - 2 Volume Set
Prentice Hall

energy production, environmental management, transportation, communication, computation, and education. As the twenty-first century unfolds, nanotechnology's impact on the health, wealth, and security of the world's people is expected to be at least as significant as the combined influences in this century of antibiotics, the integrated circuit, and human-made polymers. Dr. Neal Lane, Advisor to the President for Science and Technology and former

National Science Foundation (NSF) director, stated at a Congressional hearing in April 1998, "If I were asked for an area of science and engineering that will most likely produce the breakthroughs of tomorrow, I would point to nanoscale science and engineering. "

Recognizing this potential, the White House Office of Science and Technology Policy (OSTP) and the Office of Management and Budget (OMB) have issued a joint memorandum to Federal agency heads that identifies nanotechnology as a research priority area for Federal investment in fiscal year 2001. This report charts "Nanotechnology Research Directions," as developed by the Interagency Working Group on Nano Science, Engineering, and Technology (IWGN) of the National Science and Technology Council (NSTC). The report incorporates the views of leading experts from government, academia, and the private sector. It reflects the consensus reached at an IWGN-sponsored workshop held on January 27-29, 1999,

and detailed in contributions submitted thereafter by members of the V. S. science and engineering community. (See Appendix A for a list of contributors.