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Molten Salts Chemistry and TechnologyEddy CovarianceFoot and Ankle Sports OrthopaedicsHandbook of Behavior GeneticsMechanical Fatigue of MetalsElectronic and Optoelectronic Properties of Semiconductor StructuresChemical Analysis of Antibiotic Residues in FoodThe Japan ArchitectIntelligent Vehicle TechnologiesIntelligent Decision TechnologiesIntegration of Renewable Sources of EnergyNanomedicineSurvey of the State of the Art in Human Language TechnologyCorrosion in Systems for Storage and Transportation of Petroleum Products and BiofuelsThe North Sea Field Development GuideAmmoniaPesticide Toxicology and International RegulationOptogeneticsWorld Renewable Energy Congress VIMasters Theses in the Pure and Applied SciencesThe North Sea field development guideLean Manufacturing in the Developing WorldGene VaccinesBiomass for Energy, Industry and Environment14th Nordic-Baltic Conference on Biomedical Engineering and Medical PhysicsHandbook of Structural Steel Connection Design and Details, Third EditionDecision Making in Manufacturing Environment Using Graph Theory and Fuzzy Multiple Attribute Decision Making MethodsGo Like HellLaser Science and TechnologySoil-Specific FarmingConstruction in Southern AfricaMicronutrients Intake and Status during Pregnancy and

LactationCarbohydrates in Food, Third EditionUrban Water Reuse HandbookThriving on Our Changing PlanetProcessed Apple ProductsUnderstanding Wine ChemistryInfluenza Virus and VaccinationComputer VisionRadiological Safety Aspects of the Operation of Electron Linear Accelerators

Molten Salts Chemistry and Technology

Examining the current literature, research, and relevant case studies, presented by a team of international experts, the Urban Water Reuse Handbook discusses the pros and cons of water reuse and explores new and alternative methods for obtaining a sustainable water supply. The book defines water reuse guidelines, describes the historical and curren

Eddy Covariance

Faced with challenges of resource scarcity and environmental degradation, it is important to adopt innovative farming systems that maximize resource efficiency while protecting the environment. Soil-Specific Farming: Precision Agriculture focuses on principles and applications of soil-specific farming, providing information on rapidly evolving agricultural technologies. It addresses assessments of soil variability and application of modern innovations to enhance use efficiency of fertilizers, irrigation, tillage, and pesticides through targeted management of soils and crops. This book provides the technological basis

of adopting and promoting precision agriculture (PA) for addressing the issues of resource scarcity, environmental pollution, and climate change. It focuses specifically on PA technologies and discusses historical evolution, soil variability at different scales, soil fertility and nutrient management, water quality, land leveling techniques, and special ecosystems involving small landholders and coastal regions. Highlighting the scale-related issues and concerns of small landholders, the text details the efficient use of resources on the basis of soil/field variability and site-specific conditions. It examines how PA technology can increase productivity, enhance profitability, and minimize environmental degradation. Woven throughout is the theme of sustainable use of resources.

Foot and Ankle Sports Orthopaedics

The epic story also told in the film FORD V. FERRARI: By the early 1960s, the Ford Motor Company, built to bring automobile transportation to the masses, was falling behind. Young Henry Ford II, who had taken the reins of his grandfather's company with little business experience to speak of, knew he had to do something to shake things up. Baby boomers were taking to the road in droves, looking for speed not safety, style not comfort. Meanwhile, Enzo Ferrari, whose cars epitomized style, lorded it over the European racing scene. He crafted beautiful sports cars, "science fiction on wheels," but was also called "the Assassin" because so many drivers perished while racing them.Go Like Hell tells the remarkable story of how

Henry Ford II, with the help of a young visionary named Lee Iacocca and a former racing champion turned engineer, Carroll Shelby, concocted a scheme to reinvent the Ford company. They would enter the high-stakes world of European car racing, where an adventurous few threw safety and sanity to the wind. They would design, build, and race a car that could beat Ferrari at his own game at the most prestigious and brutal race in the world, something no American car had ever done. Go Like Hell transports readers to a risk-filled, glorious time in this brilliant portrait of a rivalry between two industrialists, the cars they built, and the "pilots" who would drive them to victory, or doom.

Handbook of Behavior Genetics

The definitive guide to steel connection design—fully revised to cover the latest advances Featuring contributions from a team of industry-recognized experts, this up-to-date resource offers comprehensive coverage of every type of steel connection. The book explains leading methods for connecting structural steel components—including state-of-the-art techniques and materials—and contains new information on fastener and welded joints. Thoroughly updated to align with the latest AISC and ICC codes, Handbook of Structural Steel Connection Design and Details, Third Edition, features brand-new material on important structural engineering topics that are hard to find covered elsewhere. You will get complete details on fastener installation, space truss connections, composite

member connections, seismic codes, and inspection and quality control requirements. The book also includes LRFD load guidelines and requirements from the American Welding Society. • Distills ICC and AISC 2016 standards and explains how they relate to steel connections • Features hundreds of detailed examples, photographs, and illustrations • Each chapter is written by a leading expert from industry or academia

Mechanical Fatigue of Metals

This handbook provides research guidelines to study roles of the genes and other factors involved in a variety of complex behaviors. Utilizing methodologies and theories commonly used in behavior genetics, each chapter features an overview of the selected topic, current issues, as well as current and future research.

Electronic and Optoelectronic Properties of Semiconductor Structures

Chemical Analysis of Antibiotic Residues in Food

Decision Making in Manufacturing Environment Using Graph Theory and Fuzzy Multiple Attribute Decision Making Methods presents the concepts and details of applications of MADM methods. A range of methods are covered including Analytic Hierarchy Process (AHP), Technique for Order Preference by Similarity to

Ideal Solution (TOPSIS), VIšekriterijumsko KOmpromisno Rangiranje (VIKOR), Data Envelopment Analysis (DEA), Preference Ranking METHod for Enrichment Evaluations (PROMETHEE), ELimination Et Choix Traduisant la Realité (ELECTRE), COmplex PRoportional ASsessment (COPRAS), Grey Relational Analysis (GRA), UTility Additive (UTA), and Ordered Weighted Averaging (OWA). The existing MADM methods are improved upon and three novel multiple attribute decision making methods for solving the decision making problems of the manufacturing environment are proposed. The concept of integrated weights is introduced in the proposed subjective and objective integrated weights (SOIW) method and the weighted Euclidean distance based approach (WEDBA) to consider both the decision maker's subjective preferences as well as the distribution of the attributes data of the decision matrix. These methods, which use fuzzy logic to convert the qualitative attributes into the quantitative attributes, are supported by various real-world application examples. Also, computer codes for AHP, TOPSIS, DEA, PROMETHEE, ELECTRE, COPRAS, and SOIW methods are included. This comprehensive coverage makes Decision Making in Manufacturing Environment Using Graph Theory and Fuzzy Multiple Attribute Decision Making Methods a key reference for the designers, manufacturing engineers, practitioners, managers, institutes involved in both design and manufacturing related projects. It is also an ideal study resource for applied research workers, academicians, and students in mechanical and industrial engineering.

The Japan Architect

Languages, in all their forms, are the more efficient and natural means for people to communicate. Enormous quantities of information are produced, distributed and consumed using languages. Human language technology's main purpose is to allow the use of automatic systems and tools to assist humans in producing and accessing information, to improve communication between humans, and to assist humans in communicating with machines. This book, sponsored by the Directorate General XIII of the European Union and the Information Science and Engineering Directorate of the National Science Foundation, USA, offers the first comprehensive overview of the human language technology field.

Intelligent Vehicle Technologies

The Intelligent Decision Technologies (IDT) International Conference encourages an interchange of research on intelligent systems and intelligent technologies that enhance or improve decision making. The focus of IDT is interdisciplinary and includes research on all aspects of intelligent decision technologies, from fundamental development to real applications. IDT has the potential to expand their support of decision making in such areas as finance, accounting, marketing, healthcare, medical and diagnostic systems, military decisions, production and operation, networks, traffic management, crisis response, human-machine interfaces, financial and stock market monitoring and prediction, and robotics.

Intelligent decision systems implement advances in intelligent agents, fuzzy logic, multi-agent systems, artificial neural networks, and genetic algorithms, among others. Emerging areas of active research include virtual decision environments, social networking, 3D human-machine interfaces, cognitive interfaces, collaborative systems, intelligent web mining, e-commerce, e-learning, e-business, bioinformatics, evolvable systems, virtual humans, and designer drugs. This volume contains papers from the Fourth KES International Symposium on Intelligent Decision Technologies (KES IDT'12), hosted by researchers in Nagoya University and other institutions in Japan. This book contains chapters based on papers selected from a large number of submissions for consideration for the conference from the international community. The volume represents the current leading thought in intelligent decision technologies.

Intelligent Decision Technologies

This highly practical handbook is an exhaustive treatment of eddy covariance measurement that will be of keen interest to scientists who are not necessarily specialists in micrometeorology. The chapters cover measuring fluxes using eddy covariance technique, from the tower installation and system dimensioning to data collection, correction and analysis. With a state-of-the-art perspective, the authors examine the latest techniques and address the most up-to-date methods for data processing and quality control. The chapters provide answers to data

treatment problems including data filtering, footprint analysis, data gap filling, uncertainty evaluation, and flux separation, among others. The authors cover the application of measurement techniques in different ecosystems such as forest, crops, grassland, wetland, lakes and rivers, and urban areas, highlighting peculiarities, specific practices and methods to be considered. The book also covers what to do when you have all your data, summarizing the objectives of a database as well as using case studies of the CarboEurope and FLUXNET databases to demonstrate the way they should be maintained and managed. Policies for data use, exchange and publication are also discussed and proposed. This one compendium is a valuable source of information on eddy covariance measurement that allows readers to make rational and relevant choices in positioning, dimensioning, installing and maintaining an eddy covariance site; collecting, treating, correcting and analyzing eddy covariance data; and scaling up eddy flux measurements to annual scale and evaluating their uncertainty.

Integration of Renewable Sources of Energy

The subject of optogenetics is comprehensively covered in this book, including physical, chemical, and biological topics of light-sensing proteins and their application in biological systems, particularly in neuroscience and medicine and the related opto-electronics. Optogenetics is a new technology that combines genetics and optics. It enables one to

manipulate or measure the function of identified cells or neurons in a tissue by light with an accuracy in the range of milliseconds, even in a freely moving animal. Optogenetics has already become a powerful tool for revealing the neural mechanisms underlying behavior and analyzing various physiological phenomena. It is also expected to become useful for treating neural dysfunctions such as Parkinson disease and for the development of a brain–machine interface. This book should be read by any scientist or student performing research in any way related to optogenetics. As a milestone publication on optogenetics, this book will serve as a compass for any researcher, from beginners to experts, to explore this uncharted world.

Nanomedicine

Wine chemistry inspires and challenges with its complexity, and while this is intriguing, it can also be a barrier to further understanding. The topic is demystified in Understanding Wine Chemistry, which explains the important chemistry of wine at the level of university education, and provides an accessible reference text for scientists and scientifically trained winemakers alike. Understanding Wine Chemistry: Summarizes the compounds found in wine, their basic chemical properties and their contribution to wine stability and sensory properties Focuses on chemical and biochemical reaction mechanisms that are critical to wine production processes such as fermentation, aging, physiochemical separations and additions Includes case studies showing how chemistry can be harnessed to enhance wine color, aroma, flavor,

balance, stability and quality. This descriptive text provides an overview of wine components and explains the key chemical reactions they undergo, such as those controlling the transformation of grape components, those that arise during fermentation, and the evolution of wine flavor and color. The book aims to guide the reader, who perhaps only has a basic knowledge of chemistry, to rationally explain or predict the outcomes of chemical reactions that contribute to the diversity observed among wines. This will help students, winemakers and other interested individuals to anticipate the effects of wine treatments and processes, or interpret experimental results based on an understanding of the major chemical reactions that can occur in wine.

Survey of the State of the Art in Human Language Technology

This volume contains the proceedings of the XIX International Colloquium on Mechanical Fatigue of Metals, held at the Faculty of Engineering of the University of Porto, Portugal, 5-7 September 2018. This International Colloquium facilitated and encouraged the exchange of knowledge and experiences among the different communities involved in both basic and applied research in the field of the fatigue of metals, looking at the problem of fatigue exploring analytical and numerical simulative approaches. Fatigue damage represents one of the most important types of damage to which structural materials are subjected in normal industrial services that can finally result in a sudden and

unexpected abrupt fracture. Since metal alloys are still today the most used materials in designing the majority of components and structures able to carry the highest service loads, the study of the different aspects of metals fatigue attracts permanent attention of scientists, engineers and designers.

Corrosion in Systems for Storage and Transportation of Petroleum Products and Biofuels

The World Renewable Energy Congress is a key event at the start of the 21st century. It is a vital forum for researchers with an interest in helping renewables to reach their full potential. The effects of global warming and pollution are becoming more apparent for all to see - and the development of renewable solutions to these problems is increasingly important globally. If you were unable to attend the conference, the proceedings will provide an invaluable comprehensive summary of the latest topics and papers.

The North Sea Field Development Guide

This book treats corrosion as it occurs and affects processes in real-world situations, and thus points the way to practical solutions. Topics described include the conditions in which petroleum products are corrosive to metals; corrosion mechanisms of petroleum products; which parts of storage tanks containing crude oils and petroleum products undergo corrosion; dependence of corrosion in tanks on type

of petroleum products; aggressiveness of petroleum products to polymeric material; how microorganisms take part in corrosion of tanks and pipes containing petroleum products; which corrosion monitoring methods are used in systems for storage and transportation of petroleum products; what corrosion control measures should be chosen; how to choose coatings for inner and outer surfaces of tanks containing petroleum products; and how different additives (oxygenates, aromatic solvents) to petroleum products and biofuels influence metallic and polymeric materials. The book is of interest to corrosion engineers, materials engineers, oil and gas engineers, petroleum engineers, chemists, chemical engineers, mechanical engineers, failure analysts, scientists, and students, designers of tanks, pipelines and other systems for storage and transportation fuels, technicians. The book is of interest to corrosion engineers, materials engineers, oil and gas engineers, petroleum engineers, chemists, chemical engineers, mechanical engineers, failure analysts, scientists, and students, designers of tanks, pipelines and other systems for storage and transportation fuels, technicians. The book is of interest to corrosion engineers, materials engineers, oil and gas engineers, petroleum engineers, chemists, chemical engineers, mechanical engineers, failure analysts, scientists, and students, designers of tanks, pipelines and other systems for storage and transportation fuels, technicians.

Ammonia

Pesticide Toxicology and International Regulation

An insightful exploration of the key aspects concerning the chemical analysis of antibiotic residues in food The presence of excess residues from frequent antibiotic use in animals is not only illegal, but can pose serious health risks by contaminating products for human consumption such as meat and milk. Chemical Analysis of Antibiotic Residues in Food is a single-source reference for readers interested in the development of analytical methods for analyzing antibiotic residues in food. It covers themes that include quality assurance and quality control, antibiotic chemical properties, pharmacokinetics, metabolism, distribution, food safety regulations, and chemical analysis. In addition, the material presented includes background information valuable for understanding the choice of marker residue and target animal tissue to use for regulatory analysis. This comprehensive reference: Includes topics on general issues related to screening and confirmatory methods Presents updated information on food safety regulation based on routine screening and confirmatory methods, especially LC-MS Provides general guidance for method development, validation, and estimation of measurement uncertainty Chemical Analysis of Antibiotic Residues in Food is written and organized with a balance between practical use and theory to provide laboratories with a solid and reliable reference on antibiotic residue analysis. Thorough coverage elicits the latest scientific findings to assist the ongoing efforts toward refining analytical methods

for producing safe foods of animal origin.

Optogenetics

Chromatographic techniques of mono- and di-saccharides analysis / Noureddine Benkeblia -- Mono- and disaccharides : selected physicochemical and functional aspects / Kirsi Jouppila -- Health aspects of mono- and disaccharides / Anne Raben, Ian A. Macdonald, Mikael Fogelholm -- Cell-wall polysaccharides : structural, chemical, and analytical aspects / Roger Andersson, Eric Westerlund and Per Åman -- Functional properties of cereal cell-wall polysaccharides / Marta S. Izydorczyk -- Hydrocolloids/food gums : analytical aspects / James N. BeMiller -- Gums and hydrocolloids : functional aspects / Jean-Louis Doublier, Catherine Garnier, Gerard Cuvelier -- Non-digestible carbohydrates : nutritional aspects / Alison Parrett, Hannah Harris, Christine A. Edwards -- Starch : analytical and structural aspects / Eric Bertoft, Lars Nilsson -- Starch : physicochemical and functional aspects / Ann-Charlotte Eliasson -- Starch : nutritional and health aspects / M. Naushad Emmambux, John R.N. Taylor

World Renewable Energy Congress VI

Increasing demand for and awareness of the applications of nanotechnology in medicine has resulted in the emergence of a new fast-growing multidisciplinary area - nanomedicine. This book offers comprehensive knowledge of and diverse perspectives on nanomedicine through two

independent volumes. It aims to bridge the gap between nanotechnology and medicine through contributions by world-renowned experts from wide range of backgrounds including academia, industry, professional consultancy, and government agencies. Each contribution integrates knowledge from a wide range of areas to present the fundamentals of new applications and products of nanomedicine, as well as an outlook for the future. This book can well serve as a reference and guide for students, academics, researchers, scientists, engineers, clinicians, government researchers, and healthcare professionals.

Masters Theses in the Pure and Applied Sciences

The North Sea field development guide

A graduate textbook presenting the underlying physics behind devices that drive today's technologies. The book covers important details of structural properties, bandstructure, transport, optical and magnetic properties of semiconductor structures. Effects of low-dimensional physics and strain - two important driving forces in modern device technology - are also discussed. In addition to conventional semiconductor physics the book discusses self-assembled structures, mesoscopic structures and the developing field of spintronics. The book utilizes carefully chosen solved examples to convey important concepts and has over 250 figures and 200

homework exercises. Real-world applications are highlighted throughout the book, stressing the links between physical principles and actual devices. Electronic and Optoelectronic Properties of Semiconductor Structures provides engineering and physics students and practitioners with complete and coherent coverage of key modern semiconductor concepts. A solutions manual and set of viewgraphs for use in lectures are available for instructors, from solutions@cambridge.org.

Lean Manufacturing in the Developing World

We live on a dynamic Earth shaped by both natural processes and the impacts of humans on their environment. It is in our collective interest to observe and understand our planet, and to predict future behavior to the extent possible, in order to effectively manage resources, successfully respond to threats from natural and human-induced environmental change, and capitalize on the opportunities â€" social, economic, security, and more â€" that such knowledge can bring. By continuously monitoring and exploring Earth, developing a deep understanding of its evolving behavior, and characterizing the processes that shape and reshape the environment in which we live, we not only advance knowledge and basic discovery about our planet, but we further develop the foundation upon which benefits to society are built. Thriving on Our Changing Planet presents prioritized science, applications, and observations, along with related strategic and programmatic

guidance, to support the U.S. civil space Earth observation program over the coming decade.

Gene Vaccines

Optimal nutrition is important during pregnancy and lactation for the health of both the mother and infant. Chronic deficiencies of both macronutrients and micronutrients are well established in developing countries. Although in developed countries overconsumption of macronutrients is a major issue, micronutrient deficiencies which occur concomitantly are no less of a concern. Furthermore in developed countries there is also the risk of excessive micronutrient intake from dietary supplements. Micronutrients have a role in fetal and neonatal health and also health in later life. Micronutrient deficiency or toxicity during pregnancy or early life can permanently affect developing tissues, resulting in adverse growth and development of the infant which is associated with chronic diseases in adulthood. An aberrant micronutrient intake during pregnancy or lactation can also have detrimental effect on the mother both in the neonatal period and in later life.

Biomass for Energy, Industry and Environment

The influenza virus poses a threat to human health and is responsible for global epidemics every year. In addition to seasonal infections, influenza can cause occasional pandemics of great consequence when novel viruses are introduced into humans. Despite the

implementation of comprehensive vaccination programs, influenza viruses continue to pose an important and unpredictable global public health threat. They are one of the most significant causes of morbidity and mortality each year and have a significant economic impact. In recent years, research has been conducted to find alternative approaches to influenza vaccine development, including the generation of universal vaccines. Notably, significant progress in the field of influenza infection, transmission, and immunity have contributed to our understanding of influenza biology, and to expanding the technological approaches for the generation of more efficient strategies against influenza infections. Moreover, highly remarkable developments have been made in the implementation of new methodologies to evaluate the efficiency of vaccines and improve them for use on domestic animals such as poultry, horses, dogs or pigs. This enables us to decrease the exposure of humans to potentially pandemic viruses. The articles in this Special Issue will address the importance of influenza to human health and the advances in influenza research that have led to the development of better therapeutics and vaccination strategies.

14th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics

Ammonia is one of the 10 largest commodity chemicals produced. The editor, Anders Nielsen, is research director with one of the largest industrial

catalyst producers. He has compiled a complete reference on all aspects of catalytical ammonia production in industry, from thermodynamics and kinetics to reactor and plant design. One chapter deals with safety aspects of ammonia handling and storage.

Handbook of Structural Steel Connection Design and Details, Third Edition

Written to record and report on recent research progresses in the field of molten salts, Molten Salts Chemistry and Technology focuses on molten salts and ionic liquids for sustainable supply and application of materials. Including coverage of molten salt reactors, electrodeposition, aluminium electrolysis, electrochemistry, and electrowinning, the text provides researchers and postgraduate students with applications include energy conversion (solar cells and fuel cells), heat storage, green solvents, metallurgy, nuclear industry, pharmaceutics and biotechnology.

Decision Making in Manufacturing Environment Using Graph Theory and Fuzzy Multiple Attribute Decision Making Methods

Go Like Hell

This book brings together key features of the

toxicology and occupational hazards of pesticides and the way their use is regulated in the main trading regions of the world. There are chapters on each of the main groups of insecticides, namely organochlorines, anticholinesterases and pyrethrins and pyrethroids. The book also covers fungicides and herbicides, as well as more specialised agents such as microbial pesticides. The risks and hazards to humans are considered, both occupational and through the consumption of contaminated foodstuffs. Additionally, clinical aspects of pesticide poisoning are discussed. The possibility of harm from pesticide exposure has led to the development of national and international regulations governing the application of pesticides. The book describes the regulatory systems in three major economic areas: the North American Free Trade Area (USA, Canada and Mexico), the European Union and Japan. This book should be of interest to all individuals working on the development and application of pesticides anywhere in the world. All those involved in the manufacture, regulation and toxicology of pesticides should also benefit from reading this book.

Laser Science and Technology

The conference "Laser Science and Technology" was held May 11-19, 1987 in Erice, Sicily. This was the 12th conference organized by the Internatio nal School of Quantum Electronics, under the auspices of the "Ettore Majorana" Center for Scientific Culture. This volume contains both the in vited and contributed papers presented at the conference,

covering current research work in two areas: new laser sources, and laser applications. The operation of the first laser by Dr. Theodore Maiman in 1960 initia ted a decade of scientific exploration of new laser sources. This was fol lowed by the decade of the 1970s, which was characterized by "technology push" in which the discoveries of the 1960s were seeking practical applica tion. In the 1980s we are instead seeking "applications pull," in which the success and rapid maturing of laser applications provides both inspiration and financial resources to stimulate additional work both on laser sources and applications. The papers presented in these Proceedings attest to the great vitali ty of research in both these areas: New Laser Sources. The papers describe current developments in ultra violet excimer lasers, X-ray lasers, and free electron lasers. These new lasers share several characteristics: each is a potentially important coher ent source; each is at a relatively short wavelength (below 1 micrometer); and each is receiving significant development attention today.

Soil-Specific Farming

Proceedings of the International Conference on Biomass for Energy, Industry and Environment held in Athens, Greece, 22-26 April 1991.

Construction in Southern Africa

'Intelligent Vehicle Technologies' covers the growing field of intelligent technologies, from intelligent

control systems to intelligent sensors. Systems such as in-car navigation devices and cruise control are already being introduced into modern vehicles, but manufacturers are now racing to develop systems such as 'smart' cruise control, on-vehicle driver information systems, collision avoidance systems, vision enhancement and roadworthiness diagnostics systems. aimed specifically at the automotive industry packed with practical examples and applications in-depth treatment written in a text book style (rather than a theoretical specialist text style)

Micronutrients Intake and Status during Pregnancy and Lactation

This book provides a comprehensive review of the diagnosis, management and treatment of sports injuries to the foot and ankle. The editors have assembled a list of contributors at the top of their field to define the medical management, treatment and surgery for the most common and highly debilitating sports injuries. Currently, foot and ankle injuries are the most common musculoskeletal injuries, thus this book fills the clear need for a state-of-the art resource that focuses upon this growing area of orthopaedic practice. Foot and Ankle Sports Orthopaedics is highly relevant to orthopaedic surgeons, sports orthopaedic surgeons and medical professionals dealing with sports injuries around the F&A. With clear and didactic information and superb illustrations, this book will prove to be an indispensable learning tool for readers seeking expert guidance to further their surgical skills in this area.

Carbohydrates in Food, Third Edition

The objective of this book is to organize and document the technical, analytical, and practical aspects of present-day apple processing. No collected works have been published on processed apple products for more than thirty years. During that time many changes have taken place in the apple-processing industry. There are fewer but larger plants processing apples from larger geographical areas because of advances in transportation and storage of fruit. In addition sophisti cated technical advances in the processing and packaging of apple products have also occurred. This volume is designed to serve primarily as a reference book for those interested and involved in the processed apple industry. An attempt has been made to provide a central source of historical, currently practical, and theoretical information on apple processing. References have been cited to give credibility and assist those who may wish to read further on a particular subject. If this book success fully summarizes present knowledge for readers and assists in the continued improvement of commercial fruit processing, I will be pleased. I would like to thank the many people in the apple industry who have requested information and encouraged the writing of this book. The late Dr. Robert M. Smock, Professor Emeritus, Cornell Univer sity, and coauthor of Apples and Apple Products, originally published in 1950, gave his blessings and encouragement to this undertaking.

Urban Water Reuse Handbook

This book presents some definitions and concepts applied in Latin America on lean manufacturing (LM), the LM tools most widely used and human and cultural aspects that most matter in this field. The book contains a total of 14 tools used and reported by authors from different countries in Latin America, with definition, timeline with related research, benefits that have been reported in literature and case studies implemented in Latin American companies. Finally, the book presents a list of softwares available to facilitate the tools' implementation, monitoring and improvement.

Thriving on Our Changing Planet

Processed Apple Products

The latest tools and techniques for addressing the challenges of 21st century power generation, renewable sources and distribution systems Renewable energy technologies and systems are advancing by leaps and bounds, and it’s only a matter of time before renewables replace fossil fuel and nuclear energy sources. Written for practicing engineers, researchers and students alike, this book discusses state-of-the art mathematical and engineering tools for the modeling, simulation and control of renewable and mixed energy systems and related power electronics. Computational methods for multi-domain modeling of integrated energy systems and the solution of power electronics engineering problems are described in detail. Chapters follow a

consistent format, featuring a brief introduction to the theoretical background, a description of problems to be solved, as well as objectives to be achieved. Multiple block diagrams, electrical circuits, and mathematical analysis and/or computer code are provided throughout. And each chapter concludes with discussions of lessons learned, recommendations for further studies, and suggestions for experimental work. Key topics covered in detail include: Integration of the most usual sources of electrical power and related thermal systems Equations for energy systems and power electronics focusing on state-space and power circuit oriented simulations MATLAB® and Simulink® models and functions and their interactions with real-world implementations using microprocessors and microcontrollers Numerical integration techniques, transfer-function modeling, harmonic analysis, and power quality performance assessment MATLAB®/Simulink®, Power Systems Toolbox, and PSIM for the simulation of power electronic circuits, including for renewable energy sources such as wind and solar sources Written by distinguished experts in the field, Integration of Renewable Sources of Energy, 2nd Edition is a valuable working resource for practicing engineers interested in power electronics, power systems, power quality, and alternative or renewable energy. It is also a valuable text/reference for undergraduate and graduate electrical engineering students.

Understanding Wine Chemistry

The induction of antigen-specific immune responses

after in vivo transfection with expression plasmids has triggered a revolution of vaccine research. After a first hype, evoked by the fascinating options of this method, clinical studies did not reach the ambitious aims and a phase of disillusion ensued. It became obvious that Gene vaccines displayed a weaker immunogenicity in humans than had been observed in the mouse models. Meanwhile these hurdles have been overcome and gene vaccines undergo a renaissance. The present book gives an update of the "world of naked gene vaccines", namely DNA and RNA vaccines. Its content ranges from general mechanisms, inherent immunostimulatory properties and the vast potential to modulate immune responses, to recent successful clinical studies and approved veterinary gene vaccines. Beyond the state-of-the-art of genetic immunization, the reader will be stimulated with a chapter addressing "burning questions".

Influenza Virus and Vaccination

14th Nordic – Baltic Conference on Biomedical Engineering and Medical Physics – NBC-2008 – brought together scientists not only from the Nordic – Baltic region, but from the entire world. This volume presents the Proceedings of this international conference, jointly organized by the Latvian Medical Engineering and Physics Society, Riga Technical University and University of Latvia in close cooperation with International Federation of Medical and Biological Engineering (IFMBE) The topics covered by the Conference Proceedings include: Biomaterials

and Tissue Engineering; Biomechanics, Artificial Organs, Implants and Rehabilitation; Biomedical Instrumentation and Measurements, Biosensors and Transducers; Biomedical Optics and Lasers; Healthcare Management, Education and Training; Information Technology to Health; Medical Imaging, Telemedicine and E-Health; Medical Physics; Micro- and Nanoobjects, Nanostructured Systems, Biophysics

Computer Vision

Radiological Safety Aspects of the Operation of Electron Linear Accelerators

Computer Vision: Algorithms and Applications explores the variety of techniques commonly used to analyze and interpret images. It also describes challenging real-world applications where vision is being successfully used, both for specialized applications such as medical imaging, and for fun, consumer-level tasks such as image editing and stitching, which students can apply to their own personal photos and videos. More than just a source of “recipes,” this exceptionally authoritative and comprehensive textbook/reference also takes a scientific approach to basic vision problems, formulating physical models of the imaging process before inverting them to produce descriptions of a scene. These problems are also analyzed using statistical models and solved using rigorous engineering techniques. Topics and features: structured to support active curricula and project-

oriented courses, with tips in the Introduction for using the book in a variety of customized courses; presents exercises at the end of each chapter with a heavy emphasis on testing algorithms and containing numerous suggestions for small mid-term projects; provides additional material and more detailed mathematical topics in the Appendices, which cover linear algebra, numerical techniques, and Bayesian estimation theory; suggests additional reading at the end of each chapter, including the latest research in each sub-field, in addition to a full Bibliography at the end of the book; supplies supplementary course material for students at the associated website, http://szeliski.org/Book/. Suitable for an upper-level undergraduate or graduate-level course in computer science or engineering, this textbook focuses on basic techniques that work under real-world conditions and encourages students to push their creative boundaries. Its design and exposition also make it eminently suitable as a unique reference to the fundamental techniques and current research literature in computer vision.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION