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The Ideas and Meditative Practices of Early Buddhism - Tilmann Vetter 1988

Probiotic Bacteria and Postbiotic Metabolites: Role in Animal and Human Health - Naheed Mojgani 2021-05-13

This book covers all aspects of probiotic bacteria and their metabolites, as well as their role and significance in human and animal health. Given the role of probiotic bacterial strains in the production of short chain fatty acids, butyrate etc probiotics may be considered as an alternative approach for the prevention or treatment of intestinal dysbiosis, cancers, cardiovascular diseases, hypertensions. Additionally, the significance of probiotics added in aquaculture systems for improving health, performance and growth of aquatic organisms has been highlighted. In this book, the multi-functional role of probiotics and their post-biotic metabolites in improving overall health status of man and animals, is discussed. It is a comprehensive compilation useful for researchers, academics, veterinarians and students in the field of microbiology, food technology and biotechnology.

Flooding and Management of Large Fluvial Lowlands - Paul F. Hudson 2021-11-25

Examines interrelations between flood management, flooding, and environmental change, for advanced students, researchers, and practitioners.

Adrenal Disorders - Andrew N. Margioris 2001-04-20

In Adrenal Disorders, a panel of distinguished physicians and researchers select the most

relevant new findings and integrate them into the existing body of clinical knowledge on adrenal pathologies. The book includes important reviews of disturbances in cortisol homeostasis, and new concepts regarding adrenal tumors and hereditary adrenal diseases. Also discussed are mineralocorticoids and the syndromes of mineralocorticoid excess and aldosterone synthase deficiency. Authoritative and insightful, Adrenal Disorders provides physicians and scientists with a comprehensive, state-of-the-art practical guide to the devastating diseases of the adrenals that are so often difficult to diagnose and treat.

World Economic Outlook, October 2018 - International Monetary Fund. Research Dept. 2018-10-09

Global growth for 2018-19 is projected to remain steady at its 2017 level, but its pace is less vigorous than projected in April and it has become less balanced. Downside risks to global growth have risen in the past six months and the potential for upside surprises has receded. Global growth is projected at 3.7 percent for 2018-19—0.2 percentage point lower for both years than forecast in April. The downward revision reflects surprises that suppressed activity in early 2018 in some major advanced economies, the negative effects of the trade measures implemented or approved between April and mid-September, as well as a weaker outlook for some key emerging market and developing economies arising from country-specific factors, tighter financial conditions, geopolitical tensions, and higher oil import bills. The balance of risks to the global growth

forecast has shifted to the downside in a context of elevated policy uncertainty. Several of the downside risks highlighted in the April 2018 World Economic Outlook (WEO)—such as rising trade barriers and a reversal of capital flows to emerging market economies with weaker fundamentals and higher political risk—have become more pronounced or have partially materialized. Meanwhile, the potential for upside surprises has receded, given the tightening of financial conditions in some parts of the world, higher trade costs, slow implementation of reforms recommended in the past, and waning growth momentum.

Textbook of Neural Repair and

Rehabilitation - Michael Selzer 2014-04-24
Volume 1 of the Textbook of Neural Repair and Rehabilitation covers the basic sciences relevant to recovery of function following injury to the nervous system.

Religion, Culture and Mental Health - Kate Loewenthal 2006-12-21

Are religious practices involving seeing visions and speaking in tongues beneficial or detrimental to mental health? Do some cultures express distress in bodily form because they lack the linguistic categories to express distress psychologically? Do some religions encourage clinical levels of obsessional behaviour? And are religious people happier than others? By merging the growing information on religion and mental health with that on culture and mental health, Kate Loewenthal enables fresh perspectives on these questions. This book deals with different psychiatric conditions such as schizophrenia, manic disorders, depression, anxiety, somatisation and dissociation as well as positive states of mind, and analyses the religious and cultural influences on each.

The Wild Oryza Genomes - Tapan K. Mondal 2018-02-15

This book focuses on the latest genome sequencing of the 25 wild *Oryza* species, public and private genomic resources, and their impact on genetic improvement research. It also addresses the untapped reservoir of agronomically important traits in wild *Oryza* species. Rice is a model crop plant that is frequently used to address several basic questions in plant biology, yet its wild relatives offer an untapped source of agronomically

important alleles that are absent in the rice gene pool. The genus *Oryza* is extremely diverse, as indicated by a wide range of chromosome numbers, different ploidy levels and genome sizes. After a 13-year gap from the first sequencing of rice in the 2002, the genomes of 11 wild *Oryza* species have now been sequenced and more will follow. These vast genomic resources are extremely useful for addressing several basic questions on the origin of the genus, evolutionary relationships between the species, domestication, and environmental adaptation, and also help to substantiate molecular breeding and pre-breeding work to introgress useful characters horizontally from wild species into cultivated rice.

The living marine resources of the Eastern Central Atlantic. Volume 4: Bony fishes part 2 (Perciformes) - Food and Agriculture Organization of the United Nations 2018-11-15
This multivolume field guide covers the species of interest to fisheries of the major marine resource groups exploited in the Eastern Central Atlantic. The area of coverage includes FAO fishing area 34 and part of 47. The marine resource groups included are bivalves, gastropods, chitons, cephalopods, stomatopods, shrimps, lobsters, crabs, hagfishes, sharks, batoid fishes, chimaeras, bony fishes and sea turtles. The introductory chapter outlines the environmental, ecological, and biogeographical factors influencing the marine biota, and the basic components of the fisheries in the Eastern Central Atlantic. Within the field guide, the sections on the resource groups are arranged phylogenetically according to higher taxonomic levels such as class, order, and family. Each resource group is introduced by general remarks on the group, an illustrated section on technical terms and measurements, and a key or guide to orders or families. Each family generally has an account summarizing family diagnostic characters, biological and fisheries information, notes on similar families occurring in the area, a key to species, a check list of species, and a short list of relevant literature. Families that are less important to fisheries include an abbreviated family account and no detailed species information. Species in the important families are treated in detail (arranged alphabetically by genus and species)

and include the species name, frequent synonyms and names of similar species, an illustration, FAO common name(s), diagnostic characters, biology and fisheries information, notes on geographical distribution, and a distribution map. For less important species, abbreviated accounts are used. Generally, this includes the species name, FAO common name(s), an illustration, a distribution map, and notes on biology, fisheries, and distribution. Each volume concludes with its own index of scientific and common names.

A Research Review of Interventions to Increase the Persistence and Resilience of Coral Reefs - National Academies of Sciences, Engineering, and Medicine (U.S.). Committee on Interventions to Increase the Resilience of Coral Reefs 2019 "Coral reef declines have been recorded for all major tropical ocean basins since the 1980s, averaging approximately 30-50% reductions in reef cover globally. These losses are a result of numerous problems, including habitat destruction, pollution, overfishing, disease, and climate change. Greenhouse gas emissions and the associated increases in ocean temperature and carbon dioxide (CO₂) concentrations have been implicated in increased reports of coral bleaching, disease outbreaks, and ocean acidification (OA). For the hundreds of millions of people who depend on reefs for food or livelihoods, the thousands of communities that depend on reefs for wave protection, the people whose cultural practices are tied to reef resources, and the many economies that depend on reefs for fisheries or tourism, the health and maintenance of this major global ecosystem is crucial. A growing body of research on coral physiology, ecology, molecular biology, and responses to stress has revealed potential tools to increase coral resilience. Some of this knowledge is poised to provide practical interventions in the short-term, whereas other discoveries are poised to facilitate research that may later open the doors to additional interventions. *A Research Review of Interventions to Increase the Persistence and Resilience of Coral Reefs* reviews the state of science on genetic, ecological, and environmental interventions meant to enhance the persistence and resilience of coral reefs. The complex nature of corals and their associated

microbiome lends itself to a wide range of possible approaches. This first report provides a summary of currently available information on the range of interventions present in the scientific literature and provides a basis for the forthcoming final report"--Publisher's description

Child Adoption - United Nations. Department of Economic and Social Affairs. Population Division 2009

Adoption is one of the oldest social institutions. Nevertheless, adoption still raises highly emotive issues because of its fundamental implications for the familial ties. This publication provides a solid foundation for furthering research on child adoption and, more specifically, on the demographic factors that shape the demand for and the availability of adoptable children. The focus of this report is on the nexus between adoption policies and trends at the national and global levels. Understanding adoption policies and their origins is all the more important today because, as adoption has become global, inconsistencies among the legal principles and traditions regarding adoption in different countries are increasingly coming to the fore.--Publisher's description.

Global Financial Development Report 2014 - World Bank Group 2013-11-07

The second issue in a new series, *Global Financial Development Report 2014* takes a step back and re-examines financial inclusion from the perspective of new global datasets and new evidence. It builds on a critical mass of new research and operational work produced by World Bank Group staff as well as outside researchers and contributors.

Treatment for Posttraumatic Stress Disorder in Military and Veteran Populations - Institute of Medicine 2012-07-22

Prior to the military conflicts in Iraq and Afghanistan, wars and conflicts have been characterized by such injuries as infectious diseases and catastrophic gunshot wounds. However, the signature injuries sustained by United States military personnel in these most recent conflicts are blast wounds and the psychiatric consequences to combat, particularly posttraumatic stress disorder (PTSD), which affects an estimated 13 to 20 percent of U.S. service members who have fought in Iraq or

Afghanistan since 2001. PTSD is triggered by a specific traumatic event - including combat - which leads to symptoms such as persistent re-experiencing of the event; emotional numbing or avoidance of thoughts, feelings, conversations, or places associated with the trauma; and hyperarousal, such as exaggerated startle responses or difficulty concentrating. As the U.S. reduces its military involvement in the Middle East, the Departments of Defense (DoD) and Veterans Affairs (VA) anticipate that increasing numbers of returning veterans will need PTSD services. As a result, Congress asked the DoD, in consultation with the VA, to sponsor an IOM study to assess both departments' PTSD treatment programs and services. Treatment for Posttraumatic Stress Disorder in Military and Veteran Populations: Initial Assessment is the first of two mandated reports examines some of the available programs to prevent, diagnose, treat, and rehabilitate those who have PTSD and encourages further research that can help to improve PTSD care.

Handbook of Vegetables and Vegetable Processing - Muhammad Siddiq 2018-02-23
Handbook of Vegetables and Vegetable Processing, Second Edition is the most comprehensive guide on vegetable technology for processors, producers, and users of vegetables in food manufacturing. This complete handbook contains 42 chapters across two volumes, contributed by field experts from across the world. It provides contemporary information that brings together current knowledge and practices in the value-chain of vegetables from production through consumption. The book is unique in the sense that it includes coverage of production and postharvest technologies, innovative processing technologies, packaging, and quality management. *Handbook of Vegetables and Vegetable Processing, Second Edition* covers recent developments in the areas of vegetable breeding and production, postharvest physiology and storage, packaging and shelf life extension, and traditional and novel processing technologies (high-pressure processing, pulse-electric field, membrane separation, and ohmic heating). It also offers in-depth coverage of processing, packaging, and the nutritional quality of vegetables as well as information on a

broader spectrum of vegetable production and processing science and technology. Coverage includes biology and classification, physiology, biochemistry, flavor and sensory properties, microbial safety and HACCP principles, nutrient and bioactive properties. In-depth descriptions of key processes including, minimal processing, freezing, pasteurization and aseptic processing, fermentation, drying, packaging, and application of new technologies. Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado, table olives, and textured vegetable proteins. This important book will appeal to anyone studying or involved in food technology, food science, food packaging, applied nutrition, biosystems and agricultural engineering, biotechnology, horticulture, food biochemistry, plant biology, and postharvest physiology.

Climate Change 2007 - Impacts, Adaptation and Vulnerability - Groupe d'experts intergouvernemental sur l'évolution du climat. Working Group II. 2007

IPCC Fourth Assessment Report on climate change impacts, adaptation and vulnerability for researchers, students, policymakers.

Reservoir Geomechanics - Mark D. Zoback 2010-04-01

This interdisciplinary book encompasses the fields of rock mechanics, structural geology and petroleum engineering to address a wide range of geomechanical problems that arise during the exploitation of oil and gas reservoirs. It considers key practical issues such as prediction of pore pressure, estimation of hydrocarbon column heights and fault seal potential, determination of optimally stable well trajectories, casing set points and mud weights, changes in reservoir performance during depletion, and production-induced faulting and subsidence. The book establishes the basic principles involved before introducing practical measurement and experimental techniques to improve recovery and reduce exploitation costs. It illustrates their successful application through case studies taken from oil and gas fields around the world. This book is a practical reference for geoscientists and engineers in the petroleum and geothermal industries, and for research scientists interested in stress measurements and their application to problems of faulting and

fluid flow in the crust.

An Anthology of Classic Australian Folklore
- 2008

Lonely because he is the only mouse in the church, Arthur asks all the town mice to join him. Unfortunately the congregation aren't so welcoming. But all is not lost when a robber tries to steal the church candlesticks, the mice foil his plans and win back their home.

Receptor Tyrosine Kinases: Structure, Functions and Role in Human Disease -

Deric L. Wheeler 2014-11-26

Receptor Tyrosine Kinase: Structure, Functions and Role in Human Disease, for the first time, systematically covers the shared structural and functional features of the RTK family. Receptor Tyrosine Kinases (RTKs) play critical roles in embryogenesis, normal physiology and several diseases. And over the last decade they have become the Number 1 targets of cancer drugs. To be able to conduct fundamental research or to attempt to develop pharmacological agents able to enhance or intercept them, it is essential first to understand the evolutionary origin of the 58 RTKs and their roles in invertebrates and in humans, as well as downstream signaling pathways. The assembly of chapters is written by experts and underscores commonalities between and among the RTKs. It is an ideal companion volume to *The Receptor Tyrosine Kinase: Families and Subfamilies*, which proceeds, family by family through all of the specific subfamilies of RTKs, along with their unique landmarks.

Essentials of Computational Chemistry -

Christopher J. Cramer 2013-04-29

Essentials of Computational Chemistry provides a balanced introduction to this dynamic subject. Suitable for both experimentalists and theorists, a wide range of samples and applications are included drawn from all key areas. The book carefully leads the reader thorough the necessary equations providing information explanations and reasoning where necessary and firmly placing each equation in context.

Behavioral and Psychopharmacologic Pain Management - Michael H. Ebert 2010-11-25

Pain is the most common symptom bringing a patient to a physician's attention. Physicians training in pain medicine may originate from different disciplines and approach the field with

varying backgrounds and experience. This book captures the theory and evidence-based practice of behavioral, psychotherapeutic and psychopharmacological treatments in modern pain medicine. The book's contributors span the fields of psychiatry, psychology, anesthesia, neurology, physical medicine and rehabilitation, and nursing. Thus the structure and content of the book convey the interdisciplinary approach that is the current standard for the successful practice of pain management. The book is designed to be used as a text for training fellowships in pain medicine, as well as graduate courses in psychology, nursing, and other health professions.

The Cambridge Handbook of Research Methods in Clinical Psychology - Aidan G. C. Wright
2020-01-31

This book integrates philosophy of science, data acquisition methods, and statistical modeling techniques to present readers with a forward-thinking perspective on clinical science. It reviews modern research practices in clinical psychology that support the goals of psychological science, study designs that promote good research, and quantitative methods that can test specific scientific questions. It covers new themes in research including intensive longitudinal designs, neurobiology, developmental psychopathology, and advanced computational methods such as machine learning. Core chapters examine significant statistical topics, for example missing data, causality, meta-analysis, latent variable analysis, and dyadic data analysis. A balanced overview of observational and experimental designs is also supplied, including preclinical research and intervention science. This is a foundational resource that supports the methodological training of the current and future generations of clinical psychological scientists.

Plant Molecular Biology Manual - Stanton Gelvin 2013-11-11

The SAGES Manual of Groin Pain - Brian P. Jacob 2015-12-09

This manual captures and summarizes the key elements in management of groin pain, including relevant anatomy, etiologies, diagnostic evaluation tools, imaging, detailed

pharmacologic options, interventional modalities and options for operative remediation. The manual separately addresses the management of intrinsic groin pain due to primary disease processes and secondary groin pain due to a prior operation. Current practices, trends in the field, treatment approaches and controversies are addressed. While the primary audience of this book will be general surgeons performing hernia operations and pain management specialists to whom they refer, the SAGES Manual of Groin Pain will serve as a stand alone state-of-the-art resource for all providers who deal with this diagnosis, including primary care providers, sports medicine specialists, gynecologists, urologists, orthopedists, neurologists, physical medicine and rehabilitation specialists, radiologists, physical therapists, industry personnel and importantly, patients who suffer from groin pain who have copious access to health information, but without the filtering, expertise and context provided by the contributors to this manual. This volume also uniquely provides its audience with narrative first-person accounts of some of the most common and challenging causes of pain, so that others can learn from their presentation, pitfalls, successes and failures. The expertise compiled in this manual will give the readership a pragmatic foundation to optimize the diagnosis and management of our patients with this challenging problem.

May 2022 - Surplus Record Machinery & Equipment Directory - Surplus Record
2022-05-01

SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 95,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. May 2022 issue. Vol. 99, No. 5

Handbook on the Delimitation of Maritime Boundaries - United Nations. Office of Legal Affairs. Division for Ocean Affairs and the Law of the Sea 2000

The Handbook covers legal, technical and

practical information deemed essential in negotiating maritime boundary delimitation between coastal states. It also contains information about the peaceful settlement of disputes where negotiations are unsuccessful and the states wish to avail themselves of the dispute settlement mechanism set out in the 1982 Convention on the Law of the Sea
Geriatric Emergency Medicine - Joseph H. Kahn
2014-01-16

This comprehensive volume provides a practical framework for evaluation, management and disposition of this growing vulnerable patient population.

World Economic Outlook, October 2019 - International Monetary Fund. Research Dept.
2019-10-15

World Economic Outlook, October 2019
Acute Exposure Guideline Levels for Selected Airborne Chemicals - National Research Council
2010-04-18

This book is the eighth volume in the series Acute Exposure Guideline Levels for Selected Airborne Chemicals, and reviews AEGs for acrolein, carbon monoxide, 1,2-dichloroethene, ethylenimine, fluorine, hydrazine, peracetic acid, propylenimine, and sulfur dioxide for scientific accuracy, completeness, and consistency with the NRC guideline reports.

Global Innovation Index 2017 - Cornell University 2017-06-15

The Global Innovation Index provides detailed metrics about the innovation performance of 127 countries and economies around the world. Its 81 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. This year's report reviews the state of innovation in agriculture and food systems across sectors and geographies. Chapters of the report provide more details on this year's theme from academic, business, and particular country perspectives from leading experts and decision makers.

Fermented Foods in Health and Disease Prevention - Juana Frías 2016-09-12

Fermented Foods in Health and Disease Prevention is the first scientific reference that addresses the properties of fermented foods in nutrition by examining their underlying microbiology, the specific characteristics of a

wide variety of fermented foods, and their effects in health and disease. The current awareness of the link between diet and health drives growth in the industry, opening new commercial opportunities. Coverage in the book includes the role of microorganisms that are involved in the fermentation of bioactive and potentially toxic compounds, their contribution to health-promoting properties, and the safety of traditional fermented foods. Authored by worldwide scientists and researchers, this book provides the food industry with new insights on the development of value-added fermented foods products, while also presenting nutritionists and dieticians with a useful resource to help them develop strategies to assist in the prevention of disease or to slow its onset and severity.

Provides a comprehensive review on current findings in the functional properties and safety of traditional fermented foods and their impact on health and disease prevention Identifies bioactive microorganisms and components in traditional fermented food Includes focused key facts, helpful glossaries, and summary points for each chapter Presents food processors and product developers with opportunities for the development of fermented food products Helps readers develop strategies that will assist in preventing or slowing disease onset and severity

The Handbook of Medical Image Perception and Techniques - Ehsan Samei 2018-12-13

A state-of-the-art review of key topics in medical image perception science and practice, including associated techniques, illustrations and examples. This second edition contains extensive updates and substantial new content. Written by key figures in the field, it covers a wide range of topics including signal detection, image interpretation and advanced image analysis (e.g. deep learning) techniques for interpretive and computational perception. It provides an overview of the key techniques of medical image perception and observer performance research, and includes examples and applications across clinical disciplines including radiology, pathology and oncology. A final chapter discusses the future prospects of medical image perception and assesses upcoming challenges and possibilities, enabling readers to identify new areas for research. Written for both newcomers to the field and experienced

researchers and clinicians, this book provides a comprehensive reference for those interested in medical image perception as means to advance knowledge and improve human health.

June 2022 - Surplus Record Machinery & Equipment Directory - Surplus Record 2022-06-01

SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 95,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD.

June 2022 issue. Vol. 99, No. 6

Networks of the Brain - Olaf Sporns 2016-02-12

An integrative overview of network approaches to neuroscience explores the origins of brain complexity and the link between brain structure and function. Over the last decade, the study of complex networks has expanded across diverse scientific fields. Increasingly, science is concerned with the structure, behavior, and evolution of complex systems ranging from cells to ecosystems. In *Networks of the Brain*, Olaf Sporns describes how the integrative nature of brain function can be illuminated from a complex network perspective. Highlighting the many emerging points of contact between neuroscience and network science, the book serves to introduce network theory to neuroscientists and neuroscience to those working on theoretical network models. Sporns emphasizes how networks connect levels of organization in the brain and how they link structure to function, offering an informal and nonmathematical treatment of the subject. *Networks of the Brain* provides a synthesis of the sciences of complex networks and the brain that will be an essential foundation for future research.

The MBR Book - Simon Judd 2011-04-18

The use of membranes is increasing throughout industry, and particularly the water industry. The municipal water industry, which is concerned with the provision of clean drinking water to the population, is a big user and developer of membrane technology which helps it to provide

water free of pathogens, chemicals, odours and unwanted tastes. Municipal authorities also have to process sewage and waste water, and membranes are used extensively in these processes. The MBR Book covers all important aspects of Membrane BioReactors in water and waste water treatment, from the fundamentals of the processes via design principles to MBR technologies. Industrial case studies help interpret actual results and give pointers for best practice. Useful appendices provide data on commercial membranes and international membrane organisations. * Major growth area in the water industries * Internationally-known author * Principles and practice, backed by case studies

The Two Traditions of Meditation in Ancient India - Johannes Bronkhorst 1993

This book elucidates the early Buddhist teachings and beliefs concerning meditations and its role in the process to liberation. In a number of cases, the Buddhist canonical texts reject practices which they accept elsewhere. When these practices-sometimes rejected, sometimes accepted-correspond to what is known about non-Buddhist practices, the conclusion is then proposed that they are non-Buddhist practices which have somehow found their way into the Buddhist texts. A similar procedure enables one to choose between conflicting beliefs.

Mangrove Guidebook for Southeast Asia - 2006

April 2022 - Surplus Record Machinery & Equipment Directory - Surplus Record
2022-04-01

SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 95,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD.

April 2022 issue. Vol. 99, No. 4

Parasite Diversity and Diversification - Serge Morand 2015-02-26

By joining phylogenetics and evolutionary ecology, this book explores the patterns of parasite diversity while revealing diversification

processes.

Proceedings of the International Conference on Industrial and Manufacturing Systems (CIMS-2020) - Ravi Pratap Singh 2021-07-24

In order to deal with the societal challenges novel technology plays an important role. For the advancement of technology, Department of Industrial and Production Engineering under the aegis of NIT Jalandhar is organizing an "International Conference on Industrial and Manufacturing Systems" (CIMS-2020) from 26th -28th June, 2020. The present conference aims at providing a leading forum for sharing original research contributions and real-world developments in the field of Industrial and Manufacturing Systems so as to contribute its share for technological advancements. This volume encloses various manuscripts having its roots in the core of industrial and production engineering. Globalization provides all around development and this development is impossible without technological contributions. CIMS-2020, gathered the spirits of various academicians, researchers, scientists and practitioners, answering the vivid issues related to optimisation in the various problems of industrial and manufacturing systems.

Hydrodynamic Control of Wave Energy Devices - Umesh A. Korde 2016-09-26

With this self-contained and comprehensive text, students and researchers will gain a detailed understanding of the fundamental aspects of the hydrodynamic control of wave energy converters. Such control is necessary to maximise energy capture for a given device configuration and plays a major role in efforts to make wave energy economic. Covering a wide range of disciplines, the reader is taken from the mathematical and technical fundamentals, through the main pillars of wave energy hydrodynamic control, right through to state-of-the-art algorithms for hydrodynamic control. The various operating principles of wave energy converters are exposed and the unique aspects of the hydrodynamic control problem highlighted, with a variety of potential solutions discussed. Supporting material on wave forecasting and the interaction of the hydrodynamic control problem with other aspects of wave energy device optimisation, such as device geometry optimisation and

optimal device array layout, is also provided.