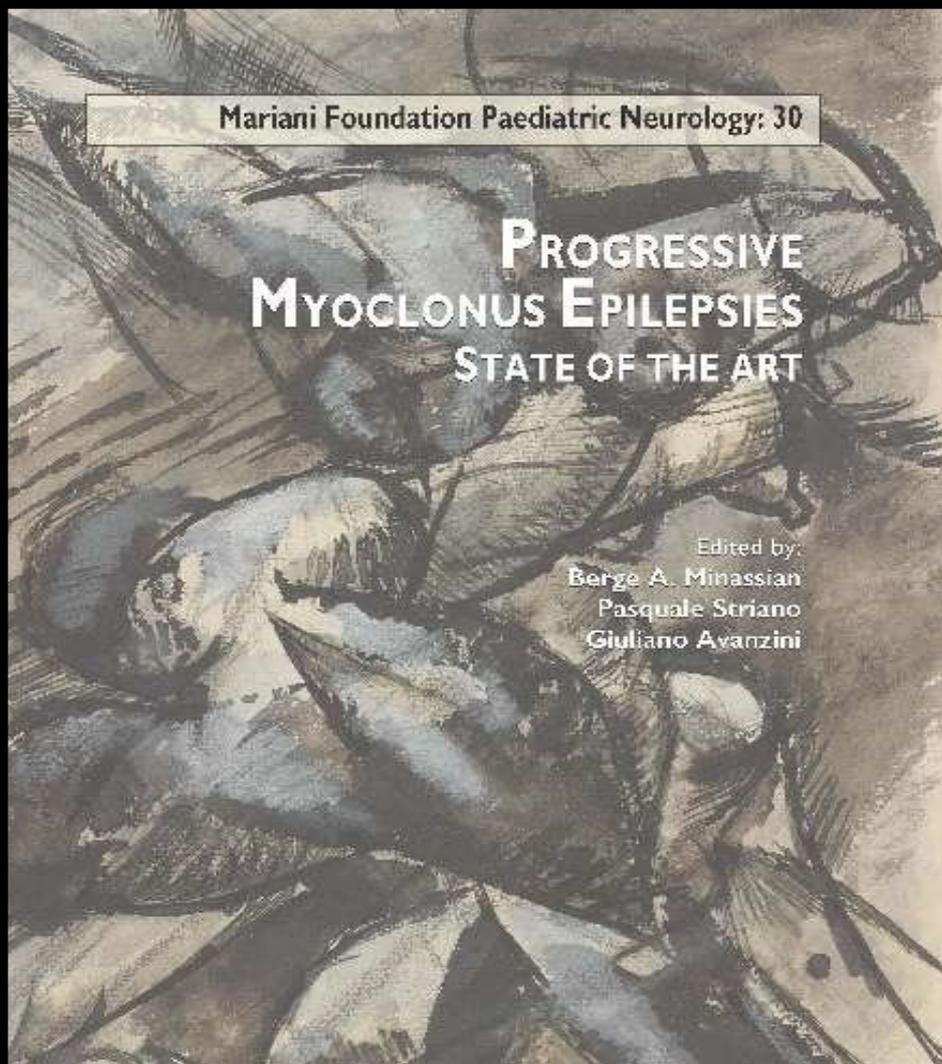




Gazelle

STM NEW TITLES

Titles Received in February 2017



Mariani Foundation Paediatric Neurology: 30

PROGRESSIVE MYOCLONUS EPILEPSIES STATE OF THE ART

Edited by:
Berge A. Minassian
Pasquale Striano
Giuliano Avanzini



Edited by

Epileptic Disorders

INTERNATIONAL LEADERSHIP IN RESEARCH AND CLINICAL PRACTICE

**JOHN LIBBEY
EUROTEXT**

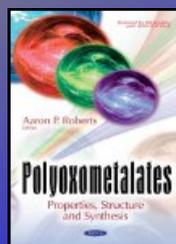
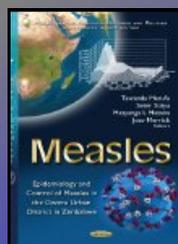
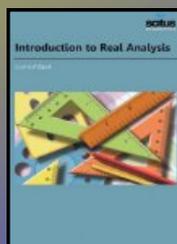
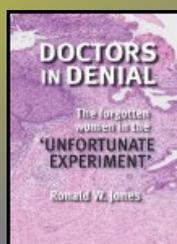
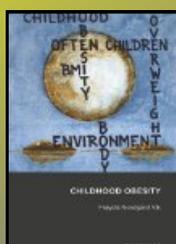
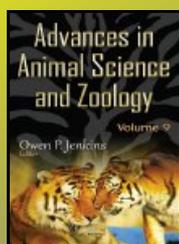
**NOVA SCIENCE
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**OTAGO
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PORTAL BOOKS

**SCITUS
ACADEMICS**

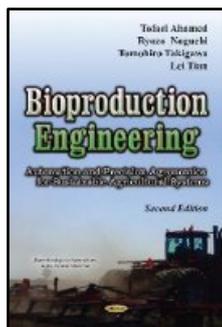
**TECHNICS
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BIOCHEMICAL ENGINEERING

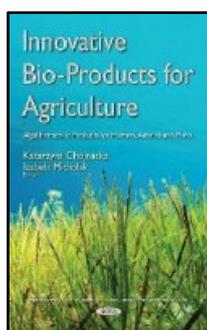


Bioproduction Engineering Automation & Precision Agronomics for Sustainable Agricultural Systems (Biotechnology in Agriculture, Industry & Medicine Series)

Tofael Ahamed, Noguchi Ryozo, Tomohiro Takigawa, Lei Tian

Crop production varies spatially and temporally within the field boundaries depending on soil and environmental conditions. The major concern of variability for agronomic inputs addresses how best to intervene in the right place, at the right time and in the right quantity to improve the potential yield of crops and feedstock. This book addresses the important question of how large a role bioproduction and renewable energy can play in achieving sustainable agricultural practices in the present system of agricultural production. Agronomy is local, which brings the challenges to the remote optimisation of agricultural machinery operations for seeding, fertilising, crop protecting, and harvesting in the field level to adopt precise agriculture technologies. Cloud computing and big data analytics bring the potential about in machine optimisation and agronomy to enable the site-specific management. Understanding bioproduction engineering and development can help improve the efficiency of a sustainable agriculture system. With the aim of understanding this process, this book focuses on bioproduction and sustainability issues, covering sensors, agricultural decision-making systems and the relationship between bioproduction and sustainable practices of agriculture.

HB 9781634838238 £199.99 April 2016 Nova Science Publishers 287 pages 180x260mm

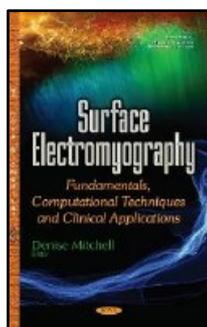


Innovative Bio-Products for Agriculture Algal Extracts in Products for Humans, Animals & Plants (Biotechnology in Agriculture, Industry & Medicine Series)

Edited by Katarzyna Chojnacka, Izabela Michalak

The aim of this book is to highlight the utilization of algae for the development of useful products using environmentally friendly technologies such as supercritical fluid extraction (SFE) and accelerated solvent extraction (ASE). Each chapter is a collection of comprehensive information on the present research on algae in different applications. The primary emphasis of this book however, is concerned with the products used for agriculture. Algal extracts were presented in this book also as a biologically active component that adds value to products for humans (cosmetics), animals (pro-health supplements) and plants (plant growth biostimulants).

HB 9781634855587 £152.50 December 2016 Nova Science Publishers 155x230mm



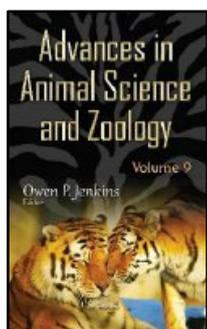
Surface Electromyography Fundamentals, Computational Techniques & Clinical Applications (Electrical Engineering Developments Series)

Edited by Denise Mitchell

Surface electromyography (sEMG) represents the electrical activity generated in the muscle fibres in response to the activation provided by the innervation of motor neurons. An sEMG device amplifies, decomposes, and filters the electrical signals that occur during muscle contraction. In this book, Chapter One provides an overview on two decades of sEMG research in swimming and water polo conducted by the Faculty of Sport and Porto Biomechanics Laboratory, both from the University of Porto, Portugal. Chapter Two reviews the clinical use of sEMG in the fields of kinesiology and rehabilitation. Chapter Three examines the use of sEMG signals as a natural control interface. Chapter Four explains the use of SEMG to examine changes in muscular activation that are provoked by orthopedic insoles.

HB 9781536102024 £90.50 December 2016 Nova Science Publishers 150 pages 155x230mm

BIOLOGY & LIFE SCIENCES

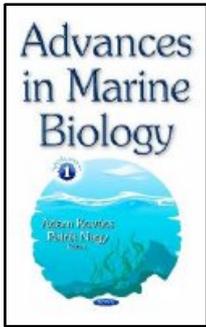


Advances in Animal Science & Zoology Volume 9 (Advances in Animal Science & Zoology Series)

Edited by Owen P. Jenkins

This book presents a comprehensive review of recent advances in animal science and zoology research. CONTENTS: Preface; Biotechnology-Derived Alternatives to Prevent & Treat Bacterial Infections in Animal Production; Medical Applications of Marine Natural Products; Nutrient Ecology & the Dynamics of Deer Herbivory in a Temperate Ecosystem; Impacts of Outfitters on Free Access to White-tailed Deer Habitat, Hunting Opportunities, & Local Residents in Illinois; A Note on the Distribution & Ecology of Nematodes Belonging to the Families Longidoridae & Trichodoridae; GPS Aerial Survey: Decline of Elephants in Laikipia-Samburu-Marsabit Ecosystem, Northern Kenya; Comments on Genome Size, Heterochromatin & Species Diversity in Salamanders & other Vertebrates; Index.

HB 9781536101300 £180.99 December 2016 Nova Science Publishers 221 pages 155x230mm

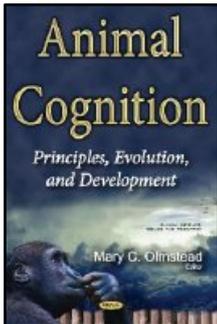


Advances in Marine Biology Volume 1 (Advances in Marine Biology Series)

Edited by Adam Kovács, Patrik Nagy

"Advances in Marine Biology" presents original research results on the leading edge of marine biology discovery. Each article has been carefully selected in an attempt to present substantial research results across a broad spectrum. In this volume, the first chapter reviews the influenza viruses in marine mammals. Chapter Two presents an overview of the development and study of marine sponge's bioactive compounds for anti-inflammatory activity for the last four years (2012-2016). Chapter Three provides an updated review of the helminth fauna of cetaceans. Chapter Four discusses the effect of clays on the removal of okadaic acid from seawater. Chapter Five focuses on biomarker responses in black sea scorpion fish *Scorpaena porcus* to anthropogenic impact. Chapter Six provides an overview of trophic ecology of the shortfin mako *Isurus oxyrinchus* (Lamniformes: Lamnidae) in the Eastern Pacific ocean. Chapter Seven examines a fishery encompassing two of the Spanish fleet's target species that exhibit a significant ecological predatory interdependence: the blue whiting and the southern stock of European hake.

HB 9781536101317 £180.99 December 2016 Nova Science Publishers 200 pages 155x230mm

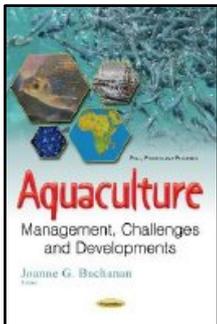


Animal Cognition Principles, Evolution & Development (Animal Science, Issues & Research Series)

Edited by Mary C Olmstead

The study of animal cognition has undergone enormous growth in the last two decades. In the early part of the 20th century, the work was conducted primarily by psychologists who studied animal behavior in the laboratory as a model of human cognition. This text builds on the tradition of combining data from laboratory and field studies of animal behavior as a means of understanding the evolution and function of cognition. In keeping with contemporary terminology, cognition refers to a wide range of processes from modification of simple reflexes to abstract concept learning to social interactions to the expression of emotions, such as guilt. These are examined throughout the text in animal groups ranging from insects to great apes. A general theme across chapters is that the evolution of behavioral patterns is adaptive, thereby reflected in underlying neural structures. Many of the authors go on to examine the adaptive significance of a behavior in relation to a species' ecological history in order to develop theories of cognitive evolution. These issues are becoming increasingly important in a world with rapidly changing environments to which all animals, including humans, must adjust. A primary goal of this volume is to introduce the exciting field of animal cognition to a new group of young scientists.

HB 9781634853637 £180.99 September 2016 Nova Science Publishers 317 pages 180x260mm

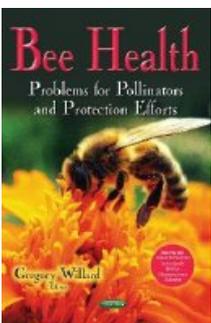


Aquaculture Management, Challenges & Developments (Fish, Fishing & Fisheries Series)

Edited by Joanne G Buchanan

This book provides current research on aquaculture. Chapter One reviews management, challenges and developments of aquaculture in Ghana, West Africa. Chapter Two covers the fundamental knowledge of phage infection in bacterial cell and extends it to phage therapy by using a model of *Vibrio*-phage, called VH-P, with its specific *Vibrio harveyi* host, VH 13-1. Chapter Three discusses taste-taint modelling in Recirculating Aquaculture Systems (RAS) farmed fish. Chapter Four investigates the causative effect of protein, lipid, feeding level and their interaction on growth, biological parameters and haematology of *Oreochromis niloticus*. Chapter Five provides a review on the mapping of the value chain for farmed fish and gender analysis along the aquaculture value chain in Kenya. Chapter Six answers why aquaculture trials have not been successful in Tanzania.

PB 9781634855631 £90.50 September 2016 Nova Science Publishers 90 pages 155x230mm

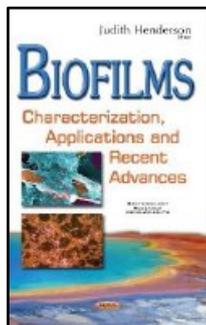


Bee Health Problems for Pollinators & Protection Efforts (Insects & Other Terrestrial Arthropods: Biology, Chemistry & Behavior Series)

Edited by Gregory Willard

Bees, both commercially managed honey bees and wild bees, play an important role in global food production. In the United States alone, the value of insect pollination to U.S. agricultural production is estimated at \$16 billion annually, of which about three-fourths is attributable to honey bees. Given the importance of bees and other types of pollinators to food production, many have expressed concern about whether a "pollinator crisis" has been occurring in recent decades. Worldwide reports indicate that populations of both managed honey bees and native bees have been declining, with colony losses in some cases described as severe or unusual. In Europe, managed honey bee colony numbers have been declining since the mid-1960s, and individual beekeepers have reported "unusual weakening and mortality in colonies," particularly during the period spanning winter through spring. According to the United Nations, many insect pollinator species may be becoming rarer, causing some to question whether this is a sign of an overall global biodiversity decline. This book examines selected U.S. Department of Agriculture agencies' bee-related monitoring, research and outreach, as well as conservation efforts, and The Environmental Protection Agency's efforts to protect bees through its regulation of pesticides.

PB 9781536102253 £59.50 December 2016 Nova Science Publishers 133 pages 155x230mm



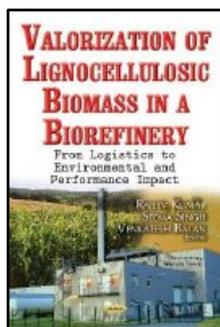
Biofilms

Characterization, Applications & Recent Advances (Bacteriology Research Developments Series)

Edited by Judith Henderson

Microbial biofilms are populations of microorganisms that are found on solid-liquid interface and are typically surrounded by a matrix of extracellular polymeric substances (EPS). The aggregates of cells not firmly attached to a surface are sometimes termed 'flocs' and have the same characteristics as biofilms. Bacteria in the biofilms produce an extracellular matrix and this contributes to ~90% of the biofilm biomass. They are found in all environments such as marine, freshwater, industrial surfaces, domestic appliances exposed to tap water and wastewater, dental surfaces, medical implants etc. This book discusses the characterization, applications and recent advances in the study of biofilms.

HB 9781536101386 £199.99 December 2016 Nova Science Publishers 270 pages 160x280mm

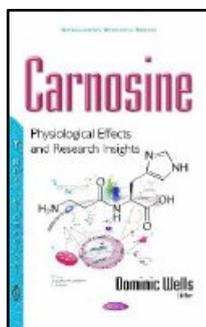


Biomass Pretreatment & Conversion Processes (Biochemistry Research Trends Series)

Edited by Rajeev Kumar, Seema Singh, Venkatesh Balan

Lignocellulosic biomass conversion to fuel is the only sustainable way to meet the current and future energy demands, at least in displacing a substantial amount of liquid transportation fuel, and curb detrimental effects of greenhouse gas emissions. Various routes and processes to convert lignocellulosic biomass to fuels, chemicals, and bio-based materials have been developed in the last couple of decades. This book contains eleven chapters that intend to provide readers with updates on these various processes and routes to produce fuels and chemicals using lignocellulosic biomass. In addition, it covers the past and current developments on biomass logistics, analytical tools applied to characterise lignocellulosic biomass, environmental aspects and engine performance of various fuels, as well as techno-economical aspects of lignocellulosic biomass refinery. The following list summarises the topics covered in this book: The past and current developments on biomass valorisation in biochemical platforms; Developments in thermochemical conversion of biomass to fuels and chemicals including gasification, pyrolysis, and hydrothermal treatment; Heterogeneous catalysts application in low to high temperature conversion of biomass to fuels and chemicals; Pathways of lignin valorisation to fuels and chemicals; Production methods and the physicochemical properties of nanocelluloses; The environmental impacts and engine performances of various bio-fuels; Biomass logistics and their impact on bioenergy applications; Anaerobic conversion of biomass to biogas and impacts of co-digestion on biogas yields and quality.

HB 9781634858274 £295.50 December 2016 Nova Science Publishers 546 pages 180x260mm



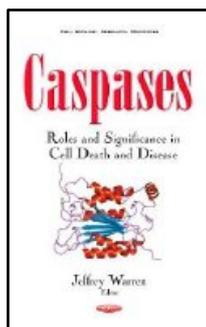
Carnosine

Physiological Effects & Research Insights (Biochemistry Research Trends Series)

Edited by Dominic Wells

Carnosine (β -alanyl histidine) is a water-soluble dipeptide. It is mainly distributed in the skeletal muscles and in the brain. It is widely recognized that carnosine has various functions including maintenance of the acid-base balance, antioxidant, protective chelating, and anti-glycation activity. In this book, Chapter One aims to discuss the properties of carnosine and its role in the prevention/inhibition of the oxidation processes occurring in meat and meat products, which are associated with the deterioration of their quality characteristics. Chapter Two reviews the perspective role of carnosine in tumor-related phenomena. Chapter Three reviews the possible mechanisms of neuroprotective functions of carnosine, and discusses the development of drugs for neurodegenerative diseases from food-derived carnosine. Chapter Four studies the neurotropic and protective effects of L-carnosine. Chapter Five focuses on the protective effects of carnosine and its derivative trolox-carnosine against inflammation and oxidative stress in experimental arthritis, carrageenan induced hind paw edema, chondrocytes under H₂O₂ injury and degradation of hyaluronan.

HB 9781536101362 £152.50 December 2016 Nova Science Publishers 180 pages 155x230mm



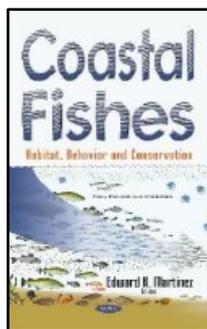
Caspases

Roles & Significance in Cell Death & Disease (Cell Biology Research Progress Series)

Edited by Jeffrey Warren

Caspases are proteases that are responsible for the initiation and execution of cell death pathways in developmental, inflammatory and pharmacological paradigms. Caspase activity is required for the execution of apoptotic cell death through the proteolytic cleavage of approximately one thousand substrates that result in the apoptotic phenotype. This book provides new research and discusses the roles and significance caspases have in cell death and disease.

PB 9781536102475 £78.50 December 2016 Nova Science Publishers 120 pages 155x230mm

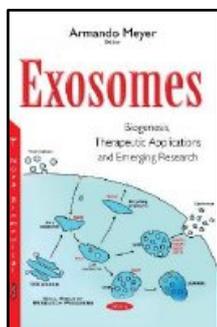


Coastal Fishes **Habitat, Behavior & Conservation (Fish, Fishing & Fisheries Series)**

Edited by Edward K Martinez

Coasts are dynamic places with interactions between, land, sea, rivers and atmosphere and serve many important socio-economic functions. Being the interface between the land and the ocean, coastal areas are affected by highly dynamic processes. Coastal spaces also support unique and especially fragile ecosystems, being areas of great environmental and aesthetic value. This book discusses habitats, behavior and the conservation of coastal fishes.

HB 9781536100112 £180.99 December 2016 Nova Science Publishers 230 pages 155x230mm

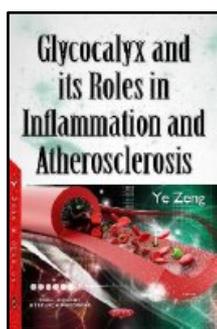


Exosomes **Biogenesis, Therapeutic Applications & Emerging Research (Cell Biology Research Progress Series)**

Edited by Armando Meyer

Exosomes are small (30-100 nm diameter) membrane enclosed vesicles of endosomal origin, released by a variety of cell types, which are capable of transferring biologically active macromolecules, such as proteins, lipids and RNA to other cells. Therefore, exosomes are important mediators of intercellular communication influencing physiological or pathological processes at recipient cells. In this book, Chapter One briefly reviews the knowledge gained on the molecular mechanisms underlying exosome formation and release. Chapter Two studies whether the Extracellular Vesicle (EV) Array can be utilized to phenotype unpurified small EVs (sEVs) from other body fluids such as urine, saliva, synovial fluid, cerebrospinal fluid (CSF), ascites, bone marrow (BM) and bronchoalveolar lavage fluid (BALF). Chapter Three examines the multifaceted roles of tumor-associated exosomes in the development and progression of cancer as well as the unique utility they present to detect, monitor, and therapeutically combat tumor occurrences. Chapter Four provides a review of the types of EVs encountered by sperm in the environment they traverse on their journey to the ampulla in the oviduct.

PB 9781634857017 £78.50 September 2016 Nova Science Publishers 92 pages 155x230mm

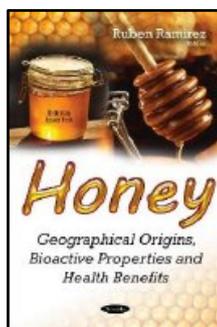


Glycocalyx & its Roles in Inflammation & Atherosclerosis **(Cell Biology Research Progress Series)**

Ye Zeng

The major component of glycocalyx, heparan sulfate covalently attaches to proteoglycan core proteins, which is abundant at the cell surface and in the extracellular matrix. Heparan sulfate could provide binding sites on endothelial cells to retain and activate highly diffusible cytokines and inflammatory chemokines to regulate cell functions, such as proliferation and migration. Under physiological and pathological conditions, the remodeling in structure of heparan sulfate including the abnormal expression, and irregular distribution that critically play a fundamental role in inflammation and atherosclerosis, as well as many other diseases was observed. This book aims to integrate a current understanding of the identified molecular mechanisms in the regulation of glycocalyx, especially the heparan sulfate structure. Additionally, the available drugs that can protect the heparan sulfate or induce its synthesis, and the measurement techniques of the endothelial glycocalyx, as well as the relationship between structure and function of heparan sulfate in the progression of inflammation and atherosclerosis are analysed.

PB 9781634858250 £90.50 December 2016 Nova Science Publishers 125 pages 155x230mm

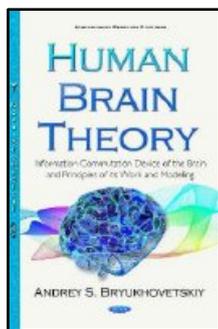


Honey **Geographical Origins, Bioactive Properties & Health Benefits (Biochemistry Research Trends Series)**

Edited by Ruben Ramirez

According to its chemical composition, honey is a complex mixture of over 70 ingredients, which enter honey in a variety of ways. Not only do the different types of honey differ, but the honey within each species differs in its composition depending on its herbal and geographical origin, climatic conditions, the type of bees, and the work of the beekeeper. In this book, Chapters One provides an assessment of geographical origins of honey by the use of chemometrics. Chapter Two presents the profile of physicochemical parameters of 40 samples of the black locust honey from Krapina-Zagorje region monitored by the season. Chapter Three examines the prebiotic and probiotic properties of honey. Chapter Four gives an updated review of traditional and modern uses of honey. Chapter Five explore the actual knowledge on honey's properties, in terms of cellular and molecular effects induced by the bee's products on skin care and wound management.

PB 9781634854566 £78.50 September 2016 Nova Science Publishers 91 pages 155x230mm

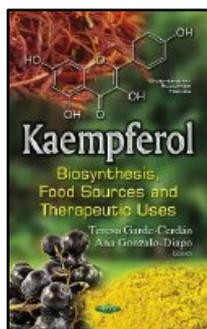


Human Brain Theory Information-Commutation Device of the Brain & Principles of its Work & Modeling (Neuroscience Research Progress Series)

Andrey S Bryukhovetskiy

The book was written as an attempt to find the solution to one of the most complex and unsolved issues of the human anatomy: the understanding of the human brain and the principles according to which it operates. Currently, it is important to look at the challenge in an alternatively non-standard, yet still systemic way, paying less attention to details and outlining the ways out of this crisis of neuroscience. The purpose of this monograph is to describe the author's theory about the brain's architecture and operation to the medical and scientific community. Accompanied with extensive clinical, research and training experience, the author's theoretical concepts of the brain synthesised with scientific evidence brought about the conclusion that low efficiency in neurologic therapy and mental diseases; the inability to work out mathematical models and simulations that could compete with the human brain; an academic dead end in the development of artificial intelligence; as well as high energy consumption of the computing innovations were conditioned by the inaccurate methodology and outdated anatomical and physiological views of the neurologists and neuroscientists on information processing in the brain, registration of memories and basic functions of the key morphological structures of the brain.

HB 9781634847414 £180.99 April 2016 Nova Science Publishers 160 pages 155x230mm

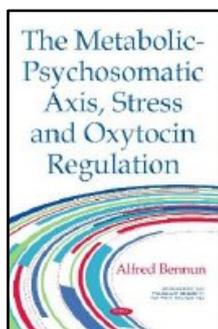


Kaempferol Biosynthesis, Food Sources & Therapeutic Uses (Biochemistry Research Trends Series)

Edited by Teresa Garde-Cerdán, Ana Gonzalo-Diago

Kaempferol is a natural plant product known for its health promoting effects and its pharmacological and nutraceutical properties. It is common in vegetables, fruits, plants and herbal medicines. Studies have shown that it reduces cancer, arteriosclerosis, cardiovascular disorders, and serves as an antioxidant and anti-inflammatory. This book discusses the biosynthesis of kaempferol derivatives and the other flavonols identified in grapes, and the nutraceutical characteristics of these compounds with particular emphasis for kaempferol, by reporting its contents in grapes and wines. Also, the influence of different elicitors in flavonol composition (and more specifically in kaempferol) is presented. Moreover, the antitumor and the anti-inflammatory activities of kaempferol on diverse diseases are studied together with the importance of flavonoids in co-therapy. Also, molecular mechanistic studies report that kaempferol modulates a number of key elements in the cellular signal transduction pathway linked to apoptosis, angiogenesis, inflammation, and metastasis. Additionally, this book examines different natural sources of kaempferol with its pharmacokinetics (oral availability) and safety. Finally, saffron petals can be a readily exploitable good source of kaempferol for many applications.

HB 9781634858281 £152.50 December 2016 Nova Science Publishers 180 pages 155x230mm

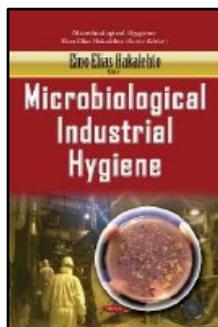


The Metabolic-Psychosomatic Axis, Stress & Oxytocin Regulation (Biochemistry & Molecular Biology in the Post Genomic Era Series)

Alfred Bennun

CONTENTS: Preface; Methods; The Biological Fundamentals of the Adrenergic System of the Brain; Molecular Details of Ligand Selectivity; Dynamics of Ligands Exchanges during Hb Deoxygenation; Enzyme-Membrane Systems; The Neuronal-Astrocyte-Capillary Coupled System Role in Adrenergic vs Glutamatergic Neurotransmission; The Dynamic Regulation of the Blood-Brain Barrier Permeability by the Neurovascular Unit (NVU); The Hypothalamic-Pituitary-Adrenal Axis Control on the Psychosomatic Metabolic Network; The Brain-NA-adrenaline Axis Controls the Fight-or-flight Response in the Hypothalamus Signals for a Multi-hormonal Adaptive Response Shifting Levels of Oxytocin, Serotonin, etc.; Insulin Role; Sleep-Wake; Interrelationship Between Steroidal Hormone Pathways; Responses to Stress & Associated Dysfunctions; Conclusion; Index.

HB 9781634852241 £199.99 May 2016 Nova Science Publishers 320 pages 180x260mm

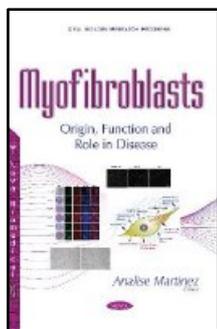


Microbiological Industrial Hygiene (Microbiological Hygiene Series)

Edited by Eino Elias Hakalehto

"Microbiological industrial hygiene" is defined as the safeguarding of industrial products, premises, personnel and raw materials from harmful or hazardous microbes which could cause a threat to the general public or the environment. The microbiological means for pursuing these goals in sampling, enrichment and detection are examined in the chapters of this book. Industries have been established for the production of a huge variety of products, from the cleanest medical or other healthcare products to the foods and other basic products people use on a daily basis. The micro-organisms are present in almost everything, and their presence needs to be monitored with skill. They often constitute an important component in the product composition by themselves. The purpose of this book is to help the industrial production of microbiologically clean products using basic knowledge based on the microbiological and hygienic principles.

HB 9781634852685 £199.99 September 2016 Nova Science Publishers 366 pages 180x260mm



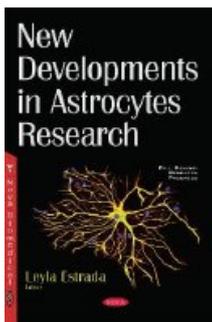
Myofibroblasts

Origin, Function & Role in Disease (Cell Biology Research Progress Series)

Edited by Analise Martinez

Myofibroblasts play a major role in connective tissue remodeling by synthesising the extracellular matrix (ECM) and by exerting contraction, both of which depend on complex and specific cell-matrix and cell-cell communications. Integrins are a major family of transmembrane receptors that directly link the intracellular cytoskeleton dynamics to extracellular structures via adhesions in all metazoans. In this book, Chapter One discusses major integrins that have an established role in the formation, function, and turnover of myofibroblasts associated with tissue remodeling. Chapter Two reviews the role of myofibroblasts in normal skin wound healing. Chapter Three summarises the evidence for the presence and role of myofibroblasts in cancer progression and discusses the similarities of myofibroblasts in cancer and fibrosis. Chapter Four focuses on the role of bone marrow stem cells and bone marrow stem cell derived myofibroblasts in carcinogenesis and cancer development, and ways to inhibit the process of malignisation.

PB 9781634857437 £90.50 September 2016 Nova Science Publishers 100 pages 155x230mm



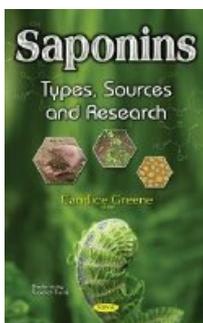
New Developments in Astrocytes Research

(Cell Biology Research Progress Series)

Edited by Leyla Estrada

Astrocytes, the most prevalent type of cell found in the brain, are glial cells that play a critical role in the support and maintenance of homeostatic conditions in the central nervous system (CNS). In addition to regulating synaptic function and neuronal development, astrocytes contribute to CNS immune responses and regulate permeability of the blood-brain barrier. Astrocytes respond to, and become activated by, a variety of molecular events in the CNS including the appearance of abnormal molecules, the disappearance of signaling molecules that are typically present, and changes in extracellular levels of various cytokines and chemokines. Under normal physiological conditions, astrocytic activation can be advantageous, as it can help protect the CNS from pathogens or injury; however, if this activation is sustained for a prolonged period, it can lead to detrimental astrocyte reactivity. This current book provides new developments in astrocyte research. The first chapter reviews pathological roles of astrocytes in brain edema formation. Chapter Two discusses neuroimmune interactions of astrocytes with other CNS cell types. Chapter Three focuses on astrocytes in amyotrophic lateral sclerosis. The final chapter studies astrocyte's response to stress and injury.

PB 9781634855617 £90.50 September 2016 Nova Science Publishers 125 pages 155x230mm



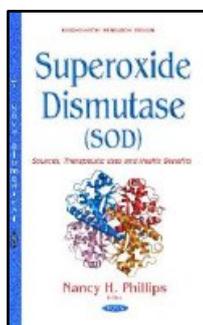
Saponins

Types, Sources & Research (Biochemistry Research Trends Series)

Edited by Candice Greene

Saponins are surfactive compounds that are widely distributed in nature, occurring primarily in the plant kingdom. Plants that produce saponins generally accumulate these metabolites as part of their development, which can be influenced by several environmental factors, such as nutrient and water availability, light irradiation and/or a combination of these factors. In this book, Chapter One discusses the occurrence in nature and biological activities of saponins. Chapter Two provides a review of ginsenoside Rg3 modulating lipid metabolism. Chapter Three demonstrates methods of saponins recovery after soil washing and attempts of their reuse. Chapter Four evaluates the feasibility of using saponin from soapnuts (*Sapindus mukorossi*) for the removal of oil from a large area of oil contaminated soil in Kuwait, due to the destruction of oil wells during the Iraqi invasion of Kuwait. Chapter Five focuses on the structural types and biological studies of saponins of *I. asprella*, and briefly discusses the characteristics of these chemical structures.

PB 9781536102895 £78.50 December 2016 Nova Science Publishers 115 pages 155x230mm



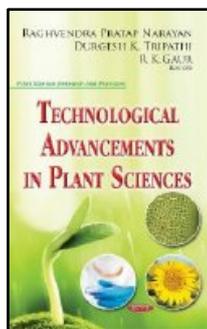
Superoxide Dismutase (SOD)

Sources, Therapeutic Uses & Health Benefits (Biochemistry Research Trends Series)

Nancy H Phillips

Superoxide dismutase (SOD) is an antioxidant enzyme that scavenges superoxide radicals, and are found in all living cells. SODs have been studied as a therapeutic tool for very diverse pathological situations for more than 30 years and, in many animal models and a few clinical trials, their use has shown positive outcomes. In this book, Chapter One begins with an overview of the association between manganese superoxide dismutase and cardiovascular disease. Chapter Two examines the indispensable roles of superoxide dismutase in mammalian erythrocytes. Chapter Three discusses the structure, catalysis and therapeutic uses of the Fe/Mn SOD family. Chapter Four reviews several strategies of nanomedicines development that have been used to prolong the circulation time and improve the therapeutic action of SODs. Chapter Five studies the emerging role of SOD3 in controlling skin inflammation and immune responses.

HB 9781634854603 £152.50 September 2016 Nova Science Publishers 102 pages 155x230mm

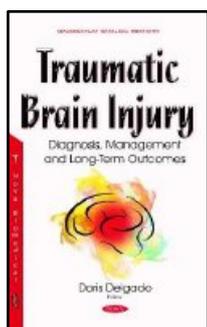


Technological Advancements in Plant Sciences (Plant Science Research & Practices Series)

Edited by Raghendra Pratap Narayan, Durgesh K Tripathi, R K Gaur

Botany is a forerunning field of study that could address the foremost disputes facing humanity in the 21st century; coupled with the development of new tools and techniques, it could aid in finding solutions to diagnose these unsolved questions. The present book summarises the recent technological advances of plant science. This is a succinct, up-to-date, and relevant compilation based on the techniques used in plant science; this book embodies the recent knowledge of advanced techniques frequently being used from last few decades. There are twelve chapters summarised systematically that demonstrate: the suitability of Laser Produced Plasma Spectroscopy; potential of NMR spectroscopy in plant metabolomics; recent developments and applications of novel analytical techniques for the analysis of plant materials; chlorophyll as a fluorescence analysis and a technique to explore the photochemistry of photosystem II; drought stress and metabolomics in plants; heat shock on *Bipolaris sorokiniana* in cereal crops; salt stress on crops plants and their mitigation strategies; plant cell death by rumen-induced stress on plant in ruminant herbivores; the role of diazotrophs in maintaining plant health in agricultural fields; population biology of *Rhizoctonia solani* AG-1 IA from India; and biofilms as a home for microorganisms and genetically modified organism. This book will be helpful for researchers, academicians and students working on the related fields.

HB 9781536100044 £180.99 December 2016 Nova Science Publishers 220 pages 155x230mm



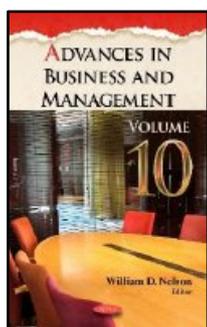
Traumatic Brain Injury Diagnosis, Management & Long-Term Outcomes (Neuroscience Research Progress Series)

Edited by Doris Delgado

Traumatic brain injury is a significant health problem worldwide. In industrialized societies such as the United States, 500 cases are noted per 100,000 population each year. In fact, TBI is the leading cause of trauma-related death and disability. The number of people who survive TBI has increased in recent years due to advancements in emergency medical care. Surviving patients may show maladaptive behaviors in both the acute and chronic phase. As a result, the management of maladaptive behaviors is increasingly important, utilizing significant resources and contributing to the burden of care. CONTENTS: Preface; Working Memory After Traumatic Brain Injury in Late Childhood & Adolescence; The Management of Agitation During Acute & Sub-Acute Hospitalization for Traumatic Brain Injury; Decompressive Craniectomy & Cranioplasty in the Management of Traumatic Brain Injury; Phenomenology, Neurobiology & Pharmacotherapy of Psychiatric Syndromes Following Traumatic Brain Injury; Traumatic Brain Injury Clubhouses: A Community Reintegration Paradigm; Index.

HB 9781536100969 £152.50 December 2016 Nova Science Publishers 160 pages 155x230mm

BUSINESS & MANAGEMENT



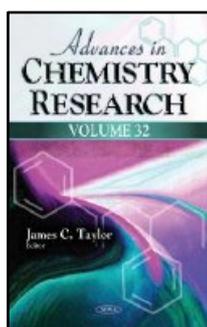
Advances in Business & Management Volume 10 (Advances in Business & Management Series)

Edited by William D Nelson

The authors of this book examine the latest research in business and management, including the development of e-governance over time and across countries; the adaptability and risk control criteria in managing models of an enterprise; the dependences between performance measurement systems (PMS) and financial results achieved by Polish enterprises; Russian business' involvement into the markets of developing countries as a case of private development engagement; the use of swarm intelligence in the field of information technology; and job satisfaction of employees in the nursing field.

HB 9781536101324 £152.50 December 2016 Nova Science Publishers 150 pages 155x230mm

CHEMISTRY

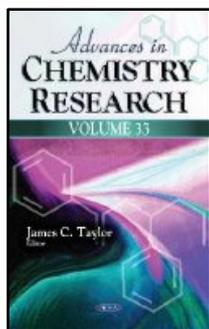


Advances in Chemistry Research Volume 32 (Advances in Chemistry Research Series)

Edited by James C Taylor

The authors' of this latest volume discuss recent advances in chemistry research. CONTENTS: Preface; Palm Oil for Food or Biodiesel, a Disjunction in Tropical Countries; Improvement of Palm Oil Production for Food Industry through Biorefinery Concept; Analysis & Comparison of the Residence Time Distributions (RTDs) of a Continuous Stirred-Tank Reactor (CSTR), A Plug Flow Reactor (PFR) & A Tubular Plug Flow Reactor (TPFR); Cyclopentadienes & Cyclopentadienyl Complexes with Per- & Polyfluoroalkyl Substituents; Cyclization Reactions Promoted by Perfluoroalkyl Radical Additions; Revision of the Nature of Gravitation & the Nature of the Chemical Bond; Analysis of the Operation of Fluidized Beds under Gas & Liquid Fluid Flow Conditions; Index.

HB 9781634854665 £238.50 September 2016 Nova Science Publishers 123 pages 155x230mm

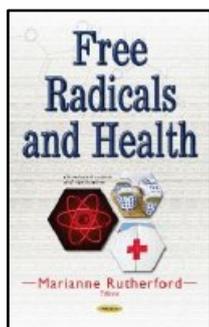


Advances in Chemistry Research Volume 33 (Advances in Chemistry Research Series)

Edited by James C Taylor

The authors' of this latest volume discuss recent advances in chemistry research. CONTENTS: Preface; Commissioning of an Air-Lift Reactor; Pitfalls in Tandem Mass Spectrometry Analysis & Alternative Confirmatory Methods; Tungsten Carbide: High Temperature Electrochemical Synthesis From Ionic Melts, Technologies of Obtaining & Regeneration; An Investigation into the Performance of a Shell & Tube Heat Exchanger; Characteristics of Gamma Radiation & Its Various Uses; Intercalation of Poly[bis-(2-methoxyethoxyethoxy)phosphazene] into Vanadium Pentoxide Xerogel: Preparation, Characterization & Conductivity Properties; Thermodynamics of Complex Formation Between Ag(I) Ion & 18-Crown-6 in Methanol-Acetonitrile Mixed Solvent; The Assay of the Hydration Shell Dynamics on the Turnover of the Active Site of CF₁-ATPase; Index.

HB 9781536100600 £180.99 December 2016 Nova Science Publishers 200 pages 155x230mm

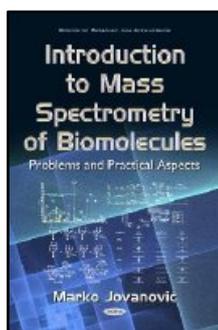


Free Radicals & Health (Chemistry Research & Applications Series)

Edited by Marianne Rutherford

This books reviews free radicals and health. CONTENTS: Preface; Health & Environmental Impacts of Phenols: The Role of Radicals; New Design of Phenol-containing Polymers as Radical Scavengers; Possible Applications of Radon Therapy in Veterinary Care for Oxidative Stress-Induced Kidney Damage; Melatonin: A Double-Edged Sword for Cancer Treatment; Oxidative Stress in Rheumatoid Arthritis: Can Anti-Oxidants Have a Beneficial Effect?; Is the Beneficial Effect of Green Tea, Wine, Olive Oil & Coffee the Consequence of Low Concentration of H₂O₂ Formation & its Hormetic Response?; Index.

PB 9781536101812 £90.50 December 2016 Nova Science Publishers 140 pages 155x230mm

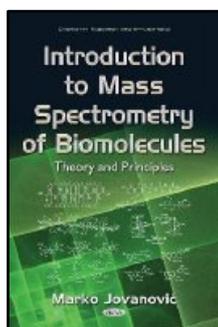


Introduction to Mass Spectrometry of Biomolecules Problems & Practical Aspects (Chemistry Research & Applications Series)

Marko Jovanović

The theses, lectures and solved problems within this book give an introduction to principles of mass spectrometry related to the analysis of biomolecules. The book focuses on MS and MS/MS analysis of peptides, oligosaccharides, lipids, glycoconjugates and polyphenols. The basic properties of modern MS ionisation techniques and mass analyzers are presented, as well as appropriate MS methods for each class of biomolecules in modern biomedical scientific research. The biggest part of this book is focused on MS/MS analysis of biomolecules: how the MS and MS/MS data are generated, what are the basic strategies for their structural analysis, as well as how to interpret the respective MS and MS/MS data. This book also covers principles and examples of advanced MS/MS analyses, serving as a platform towards an intermediate level of understanding scientific research carried out in the field of structural MS analysis of biomolecules. It is the author's hope that the reader will be able to understand principles of MS analyses related to their scientific and/or analytical interest, as well as design/help to propose MS and MS/MS experiments, as well as interpret the obtained data. This book is primarily written for students with basic knowledge of general, organic and analytical chemistry, and who are interested in applying MS-based methodologies in biomedical research fields, as well as interested in pursuing a career in mass spectrometry.

HB 9781634846646 £180.99 May 2016 Nova Science Publishers 200 pages 180x260mm

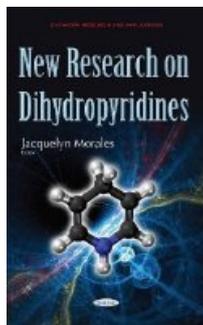


Introduction to Mass Spectrometry of Biomolecules Theory & Principles (Chemistry Research & Applications Series)

Marko Jovanović

The theses, lectures and solved problems within this book give an introduction to principles of mass spectrometry related to the analysis of biomolecules. The book focuses on MS and MS/MS analysis of peptides, oligosaccharides, lipids, glycoconjugates and polyphenols. The basic properties of modern MS ionization techniques and mass analyzers are presented, as well as appropriate MS methods for each class of biomolecules in modern biomedical scientific research. The biggest part of this book is focused on MS/MS analysis of biomolecules: how the MS and MS/MS data are generated, what are the basic strategies for their structural analysis, as well as how to interpret the respective MS and MS/MS data. This book also covers principles and examples of advanced MS/MS analyses, serving as a platform towards an intermediate level of understanding scientific research carried out in the field of structural MS analysis of biomolecules. It is the author's hope that the reader will be able to understand principles of MS analyses related to their scientific and/or analytical interest, as well as design/help to propose MS and MS/MS experiments, as well as interpret the obtained data. This book is primarily written for students with basic knowledge of general, organic and analytical chemistry, and who are interested in applying MS-based methodologies in biomedical research fields, as well as interested in pursuing a career in mass spectrometry.

HB 9781634846639 £199.99 November 2016 Nova Science Publishers 316 pages 180x260mm

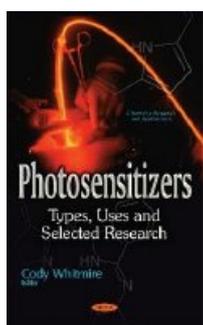


New Research on Dihydropyridines (Chemistry Research & Applications Series)

Edited by Jacquelyn Morales

Dihydropyridines (DHPs) are one of the most important nitrogen-containing heterocycles which are widely recognized in the scaffold of various biologically active compounds and natural products. DHPs are also utilized as medicines and useful building blocks for the complex molecules. On the other hand, some DHPs exhibit blue fluorescence in organic solvents and have potential to apply as functional materials. Based on the novel utility of DHPs in both medicinal chemistry and material sciences, development of efficient and robust synthetic methods for DHPs has been paid much attention and a large number of synthesis of DHPs have been reported. The first chapter in this book summarizes recent progress in synthetic methodologies for the construction of DHP scaffolds both in catalytic and in stoichiometric manners (particularly from 2000 to present), which are classified by the reaction patterns as 1) Multi-Component Coupling Reactions, 2) Pericyclic Reactions, 3) Regioselective Transformation of Pyridines, and 4) Miscellaneous. Chapter Two focuses on the synthesis of 1,4-DHPs and derivative compounds by using different routes of synthesis and greener alternatives. Chapter Three describes a mild and efficient protocol for the synthesis of 1,4-dihydropyridines via four component reactions of aromatic aldehydes, dimedone, ethyl acetoacetate or methyl acetoacetate and ammonium acetate using $\text{Fe}(\text{ClO}_4)_3/\text{SiO}_2$. Chapter Four reviews the synthesis of chiral dihydropyridines.

PB 9781634856041 £78.50 September 2016 Nova Science Publishers 155x230mm

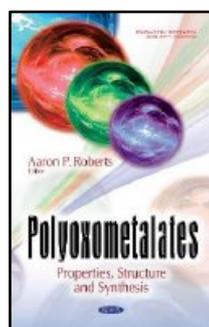


Photosensitizers Types, Uses & Selected Research (Chemistry Research & Applications Series)

Edited by Cody Whitmire

In this book, Chapter One reviews recent fundamental studies about Type I photosensitizers for photodynamic therapy (PDT). Chapter Two reviews the general features of the antibacterial photodynamic inactivation of bacteria (aPDT) process to eradicate bacteria with the use of photosensitizer agents, and summarises the photobiological processes which are involved in the inactivation of microbiological cells like the formation of reactive oxygen species (ROS). Chapter Three studies the different applications of rose bengal and its perspective using in non-invasive biomedical techniques. Chapter Four introduces multi-phototherapy based on combined use of photosensitizers and photothermal agents. Chapter Five summarises recent studies in the field of photodynamic inactivation of pathogenic bacteria and fungi with the newly synthesised phthalocyanines. Chapter Six discusses the immobilisation of the photosensitizers on the solid surface for the application in the photooxidation reactions. Chapter Seven reviews vehicles, ways and new challenges for the improvement of photosensitizers delivery.

HB 9781536101737 £152.50 December 2016 Nova Science Publishers 175 pages 155x230mm

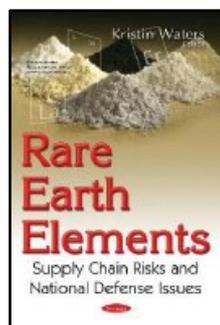


Polyoxometalates Properties, Structure & Synthesis (Chemistry Research & Applications Series)

Edited by Aaron P Roberts

Polyoxometalates (abbreviated as POMs), also known as early-transition metal-oxygen anion clusters, is a large and rapidly growing series of inorganic compounds. POMs can be generally divided into two subclasses: isopolyoxometalates (IPOMs) and heteropolyoxometalates (HPOMs). The former refers to a class of isopoly compounds which contain the skeletal transition metal cations and oxide ions of the same metal element. In contrast, the latter one, known as heteropoly compounds (HPCs) as well, contains both heteroatom and coordination atoms. This book reviews properties of POMs, their structure and also their synthesis.

HB 9781536100075 £180.99 December 2016 Nova Science Publishers 200 pages 155x230mm

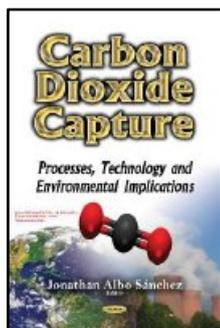


Rare Earth Elements Supply Chain Risks & National Defense Issues (Chemistry Research & Applications Series)

Edited by Kristin Waters

The Department of Defense (DOD) depends on rare earths that contain one or more of 17 similar metals which have unique properties, such as magnetism at high temperatures, to provide functionality in weapon system components. Many steps in the rare earths supply chain, such as mining, are conducted in China, a situation that may pose risks to the continued availability of these materials. The Joint Explanatory Statement accompanying the Carl Levin and Howard P. "Buck" McKeon National Defense Authorization Act for 2015 included a provision for the United States Government Accountability Office (GAO) to review DOD efforts to identify and mitigate risks in its rare earths supply chain. This book assesses the extent that DOD determined which rare earths, if any, are critical to national security; and has identified and mitigated risks associated with rare earths, including the effects of a potential supply disruption.

PB 9781536101201 £90.50 December 2016 Nova Science Publishers 105 pages 155x230mm

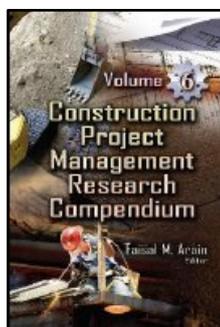


Carbon Dioxide Capture Processes, Technology & Environmental Implications (Environmental Science, Engineering & Technology Series)

Edited by Jonathan Albo Sanchez

The large scale consumption of fossil fuels for the production of energy has raised CO₂ levels up to 400 ppm over the last decades. These high atmospheric CO₂ concentrations are linked to severe environmental problems such as the undesirable effects of global warming. In the 21st century, the world will be still searching for strategies to re-balance the natural carbon cycle and decoupling the economic growth from CO₂ emissions. The transition to a low-carbon economy emerges as a priority to sustain socio-economic progress in a world of finite resources. In this sense, Carbon Capture and Storage (CCS) and Carbon Capture and Utilisation (CCU) are different approaches aimed at mitigating greenhouse gas impacts from fossil fuels combustion in industrial and energy-related processes. With the rapidly growing energy demand as countries develop, the CCS and CCU may be considered as an interesting mid-term solution to mitigate environmental impacts and allow humans to continue using fossil energy until renewable energy technologies have matured. In both processes, the CO₂ capture seems to be one of the main bottleneck steps where the efforts have to be applied. Thus, the development of new processes and technologies for CO₂ capture in energy production is under research in order to maximise their cost-efficiency in this CO₂-emission constrained framework.

HB 9781634853217 £180.99 September 2016 Nova Science Publishers 310 pages 180x260mm

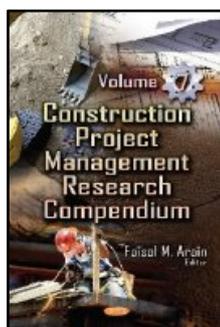


Construction Project Management Research Compendium Volume 6 (Construction Project Management Research Compendium Series)

Edited by Faisal M Arain

The construction industry has for many years been criticized for not developing consistent projects that are on time, within budget, and with high quality standards. Generally, failure to deliver successful projects has been considered in relation to schisms between design and construction, lack of integration, lack of effective communication, uncertainty, changing environments, and increasing project complexity. The rapid trend of globalization and technological changes have made it challenging for organizations to survive in the competitive world. Consequently, the importance of project management has been increased many folds. It is difficult to face the challenges in the present global construction business arena without being more agile, adaptive, and efficient. With the increasing trend for off-shoring and globalization, many organisations are taking advantage of geographically distributed skills, round-the-clock operations, and virtual teams.

HB 9781634855198 £180.99 September 2016 Nova Science Publishers 185 pages 180x260mm

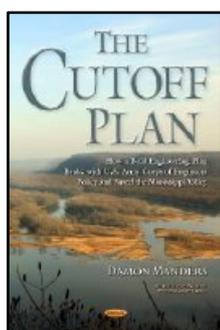


Construction Project Management Research Compendium Volume 7 (Construction Project Management Research Compendium Series)

Edited by Faisal M Arain

The construction industry plays an important role in economic uplift, generates substantial employment, and provides an impetus of growth for other sectors through backward and forward linkages. Construction project management continues to gain headlines as demand within the construction industry escalates. The ability to deliver excellent quality standards in the most productive manner possible is the hallmark of successful construction organizations in this age of intense global competition. The book delivers a great mix of knowledge presenting various aspects of construction project management.

HB 9781634856478 £180.99 September 2016 Nova Science Publishers 175 pages 180x260mm

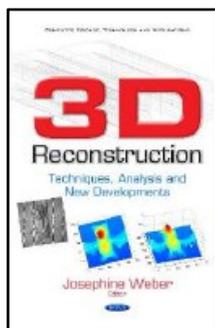


Cutoff Plan How a Bold Engineering Plan Broke with U.S. Army Corps of Engineers Policy & Saved the Mississippi Valley (Environmental Science, Engineering & Technology Series)

Damon Manders

This is a story about the triumph of engineering in finding a solution to manage flooding on the greatest American river. For a century, men had tried to manage the Mississippi River to reduce flooding, but most engineering efforts had limited effect. When the Great Flood of 1927 revealed the insufficiency of these efforts, the U.S. Army Corps of Engineers developed a plan to provide flood protection to the Mississippi Valley that relied mostly on the diversion of flood down side channels. This plan proved fatally flawed. Not only did it not use all possible solutions, it did not take property owners in the proposed floodways into account. Rammed through Congress by the political machinations of Chief of Engineers Maj. Gen. Edgar Jadwin, the plan was on the verge of failure as litigation halted its implementation, leaving the valley vulnerable to the next flood. Only when Col. Harley B. Ferguson presented a new plan for lowering floods through cutoffs (cutting across the meandering loops of the river) was the Mississippi River Commission able to reduce flooding by shortening and realigning the river.

HB 9781634854979 £219.50 September 2016 Nova Science Publishers 300 pages 180x260mm

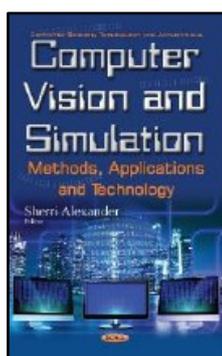


3D Reconstruction Techniques, Analysis & New Developments (Computer Science, Technology & Applications Series)

Edited by Josephine Weber

The study of three-dimensional reconstruction of objects and scenes has been and remains now a widely researched topic. It has been investigated for many applications, for instance, video game development, animation, movies, virtual reality, teleoperating surgery, among other engineering-related applications. In this book, Chapter One reviews preoperative planning and intraoperative navigation based on 3D modeling for retroperitoneal procedures. Chapter Two discusses fringe pattern analysis using phase shifting techniques applied to solid digitalization in Advanced RISC Machine (ARM) architecture. Chapter Three describes the steps for 3D digitalization using a Fourier Transform Profilometry (FTP). Chapter Four compares different wavelet transform for its use in 3D reconstruction.

HB 9781536102420 £90.50 December 2016 Nova Science Publishers 150 pages 155x230mm

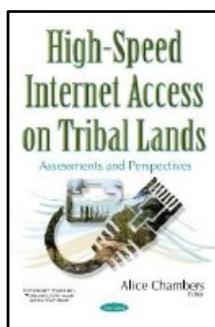


Computer Vision & Simulation Methods, Applications & Technology (Computer Science, Technology & Applications Series)

Edited by Sherri Alexander

This book provides current research on computer vision and simulation. Chapter One studies and compares the representation capability of several different layers in convolutional neural network (CNN) showing that they contain more accurate information about the face image than to believe. Chapter Two finds, empirically, the best methods for describing a given texture using an ensemble to harness the discriminative power of different texture approaches. Chapter Three provides a computer study of the interaction of mercury with graphene. Chapter Four discusses the influence of yttrium(III) ion on calcium(II) and zinc(II) biospeciation in human blood plasma by computer simulation. Chapter Five reviews the simulation of diffraction gratings in the Fresnel diffraction regime using the ab-initio iterative Fresnel Integral Method (IFIM). Chapter Six introduces an example of a simple visual feedback control system of a mobile robot with an axis-symmetric shape for mechatronics education.

HB 9781634857901 £152.50 September 2016 Nova Science Publishers 170 pages 155x230mm



High-Speed Internet Access on Tribal Lands Assessments & Perspectives (Internet Theory, Technology & Applications Series)

Edited by Alice Chambers

High-speed Internet service is viewed as a critical component of the nation's infrastructure and an economic driver, particularly to remote tribal communities. However, in 2015, the Federal Communications Commission's (FCC) reported that the lack of service in tribal areas presents impediments. This book examines perspectives of tribes and providers on high-speed Internet access and barriers to increasing this access; the level of interrelation and coordination between federal programs that promote high-speed Internet access on tribal lands; and existing data and performance measures related to high-speed Internet on tribal lands.

PB 9781634859363 £59.50 December 2016 Nova Science Publishers 67 pages 155x230mm

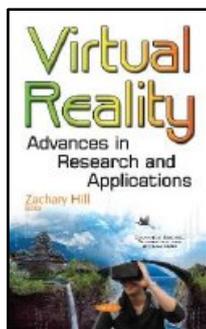


Turning Text into Gold Taxonomies & Textual Analytics

Bill Inmon

In our distant past, we attempted to create wealth by turning everyday substances into gold. This was early alchemy, and ultimately it did not work. But the world has changed. Today we have a type of "modern alchemy" that really can create gold. We can transform voluminous text into a wealth of knowledge. Text is a common fabric of society, yet it is still challenging for our technology to make sense of text. This is where taxonomies can help. In this book, legendary Bill Inmon will introduce you to the concept of taxonomies and how they are used to simplify and understand text. We emphasise the practical aspects of taxonomies, and the subsequent usage of taxonomies as a basis for textual analytics. This book is for managers who have to deal with text, students of computer science, programmers who need to understand taxonomies, systems analysts who hope to draw business value out of a body of text, and especially those who are struggling to decode data lakes. Hopefully for those individuals (and many more), this book will serve as both an introduction to taxonomies and a guide to how taxonomies can be used to bring text into the realm of corporate decision-making. This book will introduce you to the world of taxonomies, as well as explore: Simple and complex taxonomies; Ontologies; Obtaining taxonomies; Changing taxonomies; Taxonomies and data models; Types of textual data; Textual analytics. In addition, several case studies are presented from industries as diverse as banking, call centres, and travel.

PB 9781634621663 £23.99 January 2017 Technics Publications 140 pages 155x230mm

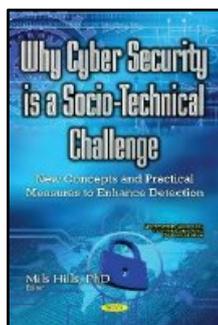


Virtual Reality
Advances in Research & Applications (Computer Science, Technology & Applications Series)

Edited by Zachary Hill

This book provides new research on the advances and applications of virtual reality (VR) in the medical field. CONTENTS: Preface; Virtual Simulation & Surgical Education: Current Challenges & Future Solutions; Advances in Virtual Reality for Eating Disorders & Obesity; Virtual Reality for Otolaryngology Surgical Rehearsal; Virtual Reality Exposure Therapy for Specific Phobia & its Clinical Application to Reduce Return of Fear; Interactive Games Set with the Movement Sensor Kinect® as a Tool for Cerebral Palsy Rehabilitation; On the Use of Virtual Reality in Sport & Exercise: Applications & Research Findings; Index.

HB 9781536103434 £90.50 December 2016 Nova Science Publishers 180 pages 155x230mm



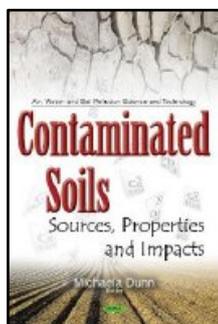
Why Cyber Security is a Socio-Technical Challenge
New Concepts & Practical Measures to Enhance Detection (Computer Science, Technology & Applications Series)

Edited by Mila Hills

This book is a provocative manifesto of disruptive thinking about cyber security. It presents cutting-edge thinking and professional reflection and is designed to be a source of ideas and approaches that can be adopted for application in the real world by those who recognize that conventional ways of defining and considering cyber-attack are insufficient. All of the authors believe that the term “cyber” must be urgently wrestled back from the technologists, cyber security professionals, consultancies and corporate silos that have hijacked it (seemingly without any resistance) and rendered the term essentially meaningless. The authors write from applied and often unique experiences in a range of commercial, consulting, state and defense environments. Many of the authors of this volume have direct experience of inflicting, reporting on and protecting organizations from such effects, and also have knowledge of taking the challenge to additional levels. Most consultancies, academics and “experts” don’t live in the real world, are content with operating in the commoditised world of cyber-technical security and don’t have the intellectual capacity to understand, engage with or monetize this more challenging reality. This book is intended to help organizations improve preparedness for the established cyber world reality.

HB 9781536100907 £152.50 December 2016 Nova Science Publishers 180 pages 155x230mm

EARTH SCIENCES

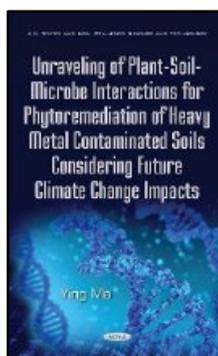


Contaminated Soils
Sources, Properties & Impacts (Air, Water & Soil Pollution Science & Technology Series)

Edited by Michaela Dunn

This book provides current research on sources, properties and impacts of contaminated soils. CONTENTS: Research Progress in Nanotoxicology; Compost in Soil Remediation: Immobilization & Mobilization of Heavy Metals; Investigation of the Genetic Potential of the Winter Wheat Resistance to Heavy Metals in Contaminated Soils for the Development of Clean Growing Technology; Impact of Heavy Metals & Metalloids on Soil Microorganisms of Mining Areas; Heavy Metals Contamination of Soils in the Ural Region, Russia; Evaluation of Specific Reactivity of Cement-Brown Coal Components as Sorbents for Remediating Pb Contaminated Sites; Inoculation of *Lens culinaris*, *Vicia faba* & *Sulla coronaria* with Heavy Metal-Resistant PGPB Shows Potential for Phytostabilization; Assessment of Cu, Pb, Cd bonds with Soil Colloids as an Index of Retention-Release Dynamics; Microbial Degradation of Nitroaromatic Compounds & their Chlorinated Derivatives.

HB 9781634854498 £180.99 September 2016 Nova Science Publishers 230 pages 180x260mm



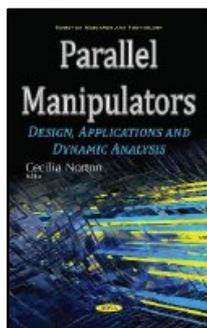
Unraveling of Plant-Soil-Microbe Interactions for Phytoremediation of Heavy Metal Contaminated Soils Considering Future Climate Change Impacts (Air, Water & Soil Pollution Science & Technology Series)

Ying Ma

This book brings a state-of-the-art review on microbe-assisted phytoremediation resulting from plant-microbe-metal interactions, providing high quality academic knowledge and understanding of this remediation technology. Topics of contemporary importance are covered including plant-soil-microbe interactions at the: molecular level (molecular signals and quorum sensing); cellular and organismal level (establishment of associative symbiosis of plant and microbes); biogeochemical level (heavy metal detoxification, mobilisation, immobilisation, transformation, transport and distribution); ecosystem level (mechanisms involved in plant-microbe-metal interactions) and at the technological application level (case study of using plant growth to promote rhizobacterium for phytoremediation).

PB 9781634842501 £78.50 December 2016 Nova Science Publishers 103 pages 155x230mm

ELECTRONICS & COMMUNICATIONS ENGINEERING



Parallel Manipulators

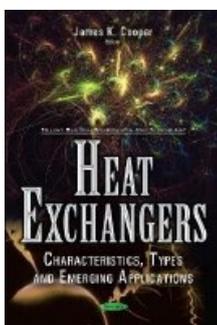
Design, Applications & Dynamic Analysis (Robotics Research & Technology Series)

Edited by Cecilia Norton

Robots are a key element in current industrial processes, as they can be applied to a number of tasks, increasing both quality and productivity. Traditionally, serial robots have been installed in factories, as their wide operating space allowed them to fulfill a number of tasks. However, due to their high moving mass and single kinematic chain structure, these robots present some disadvantages when high speed, accuracy or heavy load handling tasks have to be executed. Parallel robots provide an interesting alternative to these application fields, as their multiple kinematic chain structure offers increased stiffness, allowing reduced positioning errors, lighter mechanisms and increased load/weight ratios. In this book, Chapter One addresses a new control strategy for parallel manipulators based on L1 adaptive control. This latter is known for its decoupled control and estimation loops, enabling fast adaptation and guaranteed robustness. Chapter Two focuses on the control of parallel robots. Chapter Three reviews structure synthesis of fully-isotropic two-rotational and two-translational parallel robotic manipulators. Chapter Four reviews the new prototype of the two-legged, parallel kinematic walking robot CENTAUROB, developed at Hamburg University of Technology. Chapter Five analyzes and robustly controls the 6-DOF 3-legged Wide-Open parallel manipulator, using a Lyapunov analysis approach.

HB 9781634859264 £152.50 December 2016 Nova Science Publishers 171 pages 155x230mm

ENERGY TECHNOLOGY



Heat Exchangers

Characteristics, Types & Emerging Applications (Energy Science, Engineering & Technology Series)

Edited by James K Cooper

In recent years, thermal control systems performance has improved in numerous ways due to developments in control theory and information technology. Efforts have been made to produce more efficient heat exchangers by employing various methods of heat transfer enhancement. This book discusses the characteristics, types and emerging applications of heat exchangers. Chapter One presents a short review of advanced heat exchangers thermal designs and manufacturing. Chapter Two presents an empirical relationship between the pressure drop coefficient and the angle of inclination of porous media. Chapter Three studies the utilisation of heat accumulation in control of cyclic systems. Chapter Four describes and introduces the numerical simulation methodologies for thermal modeling of crossflow heat exchangers.

PB 9781634857499 £90.50 September 2016 Nova Science Publishers 125 pages 155x230mm

ENVIRONMENT



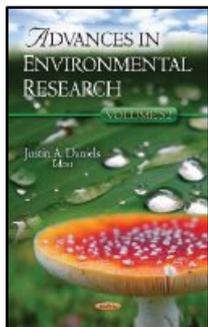
Advances in Environmental Research

Volume 51 (Advances in Environmental Research Series)

Edited by Justin A Daniels

This book provides readers with the latest developments in environmental research. Chapter One presents the strongest wind erosions of the Sinjsko polje, a karst field situated in the Dalmatia, Croatian south region. Chapter Two provides an analysis for sediment formation by model experiments in karstic depressions. Chapter Three presents the effects of different water pollutants on different assays, biomonitors and biomarkers to evaluate the aquatic environment, as well as justify the importance of inclusion of mutagenicity and genotoxicity tests in water monitoring programs. Chapter Four focuses upon the role of spatial analysis in informing water management into the future and reviews the spatial analysis literature in water resources management/economics from a global and local scale. Chapter Five discusses the impact of climatic variation on reference crop evapotranspiration in the North-East hydrological region of Bangladesh. Chapter Six reviews the causes and impacts of land degradation in Pakistan and devises some improvement measures. Chapter Seven evaluates the impact of partially harvesting the lavender biomass. Chapter Eight introduces benefits and cost of green roof installation, and also gives a new insight into the cost-related issues of green roof installation from owners' developers' and governments' perspectives. Chapter Nine examines the potential environmental risk of food waste management. Chapter Ten discusses the ecophysiology of entomopathogenic fungi used against insect pests of storage maize.

HB 9781634857864 £238.50 September 2016 Nova Science Publishers 205 pages 155x230mm

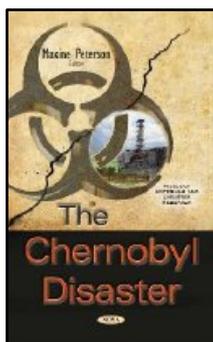


Advances in Environmental Research Volume 52 (Advances in Environmental Research Series)

Edited by Justin A Daniels

This book provides readers with the latest developments in environmental research. Chapter One reviews different toxicological and ecotoxicological tests applied to different types of textile effluent treatments and their efficiency in detecting potential toxicity in treated effluents. Chapter Two illustrates that in properly leveraging green marketing through sustainability strategic initiatives, a firm can simultaneously become more profitable, promote quality environmental issues, and enhance corporate reputation. Chapter Three investigates drinking water recarbonization process based on a combination of experimental and mathematical modelling. Chapter Four discusses improving the management of ecosystem services by means of stakeholder perceptions. Chapter Five examines community involvement in river management for ecosystem services and livelihood. Chapter Six focuses on the effect of some environmental factors on milk production of primiparous Holstein raised in the Souss-Massa region in Morocco. Chapter Seven studies the El Niño-Southern Oscillation (ENSO) influence over precipitation in Argentina. The final chapter discusses kinematics of ice-cores near divides and inferences from age/depth data.

HB 9781536100587 £152.50 December 2016 Nova Science Publishers 220 pages 155x230mm

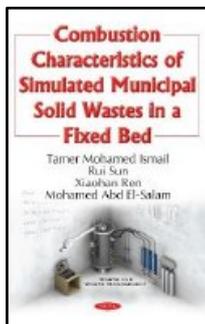


Chernobyl Disaster (Nuclear Materials & Disaster Research Series)

Edited by Maxine Peterson

The massive release of radioactive material at the Chernobyl accident in 1986 led to widespread radiation exposure, in particular to people evacuated from the settlements near the reactor and workers involved in the clean-up operations, and also to several millions living in contaminated regions in Russia, Belarus and Ukraine. This book provides current research on the Chernobyl disaster. Chapter One provides a comparative analysis and evaluation of different types of countermeasures implemented in the aftermath of the accident at Chernobyl. Chapter Two discusses the artistic treatment of Chernobyl where the problem of apophasia arises. Chapter Three reviews the general tendencies of dynamics of frequencies of congenital malformations in the territories polluted by radioactive Chernobyl radionuclides. Chapter Four discusses the impact of low doses of radiation. Chapter Five provides an overview of the increase of non-cancer morbidity on the Chernobyl radioactively contaminated territories. Chapter Six develops a concept of premature aging development in liquidators in the remote period after the Chernobyl disaster. Chapter Seven discusses the long term consequences of atmospheric tests of nuclear weapons and Chernobyl disaster on the territory of South Bohemia in Czech Republic. Chapter Eight studies the stress adaptation of microscopic fungi from around the Chernobyl atomic energy station. Chapter Nine focuses on perspectives of nuclear safety. The final chapter is a short commentary on the radiation and risk of hematological malignancies in the Chernobyl clean-up workers.

HB 9781634854580 £152.50 September 2016 Nova Science Publishers 190 pages 155x230mm

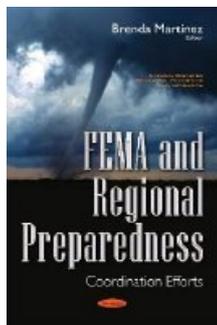


Combustion Characteristics of Simulated Municipal Solid Wastes in a Fixed Bed (Waste & Waste Management Series)

Tamer Mohamed Ismail, Rui Sun, Xiaohan Ren, M Abd El-Salam

The notion of a lifestyle system leading to zero waste is obviously appealing, and a strategy of total reuse and recycling of: "waste material" is often advocated. However, there is a growing realization that the recycling process itself produces waste, and the environmental and economic cost of recycling and reusing certain materials invalidates the "zero waste" approach as a universally viable solution. Thus, solutions must be found to deal with the part of waste that it is not practicable to recycle or reuse. The energy content of municipal waste (whether raw or classified) is about 10MJ kg⁻¹. If the total amount of waste material in any region is around 30 million tons per year or about 1000 kg/ s, the total energy is thus 10,000MJ /s = 10,000 MW. At an electricity generation efficiency of 20%, this could provide 2000 MW plus about 6000MW of district heating. This energy source is largely biomass, which is carbon dioxide neutral, and thus does not contribute to the total atmospheric greenhouse gases. The present work includes many aspects of municipal solid waste combustion, such as the effects of moisture, particle size and ash content effects on solid particle during process rates (moisture evaporation, volatile release, and char burning rate). The COMMENT code has developed to reveal much detailed information on the combustion processes. Through experimental and numerical investigations, the combustion process of simulated MSW in bed can be better understood and the experiment results can be used to amend the mathematics model and be consulted by the application in the project. The results from modeling can show the combustion process, and make us deeply know how the heat transfers in the fuel and gas yields from fuel. At the same time, the simulation can predict the maximum temperature of waste incineration and the trend concerning combustion.

HB 9781634858472 £180.99 December 2016 Nova Science Publishers 200 pages 155x230mm

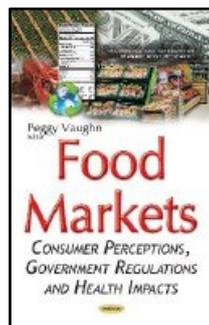


FEMA & Regional Preparedness Co-Ordination Efforts (Natural Disaster Research, Prediction & Mitigation Series)

Edited by Brenda Martinez

Department of Homeland Security's (DHS) Federal Emergency Management Agency (FEMA) is responsible for coordinating with state, local, and tribal governments to prepare for disasters. Specifically, FEMA provides preparedness grants to states and localities, and works to implement the National Incident Management System nationwide, among other things. This book addresses the extent to which FEMA and regional offices have addressed preparedness grant management coordination challenges; established a system to assess National Incident Management System (NIMS) implementation; and collaborated with Regional Advisory Councils (RAC) stakeholders.

HB 9781536100792 £90.50 December 2016 Nova Science Publishers 105 pages 155x230mm

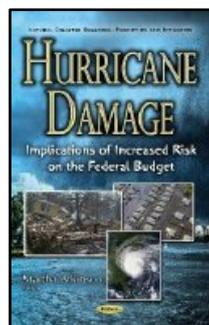


Food Markets Consumer Perceptions, Government Regulations & Health Impacts (Food Science & Technology Series)

Edited by Peggy Vaughn

This book provides current research on consumer perceptions, government regulations and health impacts of the food markets. Chapter One discusses the consumer perceptions on health and welfare of European lobsters placed on the market live and how these aspects affect their quality and food safety. Chapter Two uses a large, national survey to identify, describe, and explain differences among three groups of consumers categorised according to their propensity to buy and support local food. Chapter Three analyzes Moldova's transition to organic farming and the prospects for organic food processing and export, taking into consideration the conditions of and opportunities presented by the new agreement. Chapter Four examines how nano-food packaging designed to enhance shelf-life affects consumer willingness to pay (WTP) for perishable products in order to better understand how the controversy surrounding nanotechnology is likely to affect its market success. Chapter Five gives some strategic suggestions regarding how the headquarters of restaurant chains should manage their store networks in domestic context. Chapter Six investigates the accessibility of markets and challenges faced in marketing of mariculture products. Chapter Seven discusses the importance of the normalization of food supplements labeling, particularly the creatine-based ones, and reviews how the labeling of the supplements commercialized in Brazil are related to the respective legislation. Chapter Eight analyzes the most important issues for sustainable value in food retail.

HB 9781634857895 £152.50 September 2016 Nova Science Publishers 160 pages 155x230mm

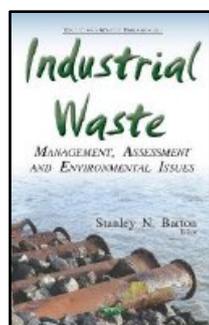


Hurricane Damage Implications of Increased Risk on the Federal Budget (Natural Disaster Research, Prediction & Mitigation Series)

Edited by Martha Atkinson

Damage from hurricanes is expected to increase significantly in the coming decades because of the effects of climate change and coastal development. In turn, potential requests for federal relief and recovery efforts will increase as well. The Congressional Budget Office has estimated the magnitude of the increases in hurricane damage and the associated amounts of federal aid if historical patterns hold. This book provides a detailed discussion on the implications of increased risk on the federal budget of hurricane damage in the upcoming years.

HB 9781536100358 £142.99 December 2016 Nova Science Publishers 181 pages 155x230mm

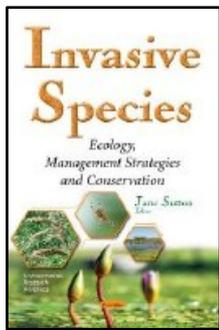


Industrial Waste Management, Assessment & Environmental Issues (Waste & Waste Management Series)

Edited by Stanley N Barton

Conventional wastewater treatment processes are expensive and require complex operations and maintenance. They also generate large volumes of secondary waste that must be appropriately disposed. This book discusses management options, assessment and environmental issues of industrial waste. Chapter One focuses on a new method to treat wastewater containing acrylic acid in petrochemical industries. Chapter Two covers topics on nutrient cycling in wastewater treatment plants, the characteristics of industrial pollution, the industrially consolidated processes for wastewater treatment, the concept of process intensification applied to wastewater treatment, the emerging processes to wastewater treatment and the concept of biorefinery applied to wastewater treatment, summarizing a range of useful techno-economic opportunities to be applied on wastewater treatments plants. Chapter Three studies the residual material in order to determine its suitability for reuse as fine aggregate in clay mixtures. Chapter Four explores the feasible utilization of orange peels arising from juice production as biosorbent for removal of water pollutants.

PB 9781634856003 £90.50 September 2016 Nova Science Publishers 150 pages 155x230mm

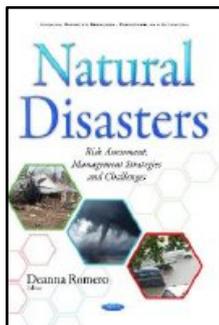


Invasive Species Ecology, Management Strategies & Conservation (Environmental Research Advances Series)

Edited by Jane Sutton

Invasive species constitute a significant environmental and economic threat worldwide, acting as a key driver of biodiversity loss and ecosystem function disruption globally. Biological invasions have the potential to dramatically affect species composition, guild structure and alter interspecific interactions within the invaded community. This book provides the reader with new research on invasive species. Chapter One reviews the adaptive responses of *Phalaris arundinacea*, an invasive wetland grass, to water stress. Chapter Two discusses the expansion of spider species to help better understand their potential for biological control of pests in agricultural landscapes and for conservation of biodiversity within the ecosystems in which they are found. Chapter Three explores the feasibility of using *Parkinsonia aculeata* wood as a feedstock for the sustainable development of adsorbents targeted at pollutants removal from wastewater. Chapter Four gives background information on several origins of invasive species, how invasive species respond to environmental changes, and insights on integrated management strategies that focus on enhancing species and ecosystem adaptive capacity and reducing the risks from biodiversity degradation.

PB 9781634856546 £90.50 September 2016 Nova Science Publishers 87 pages 155x230mm



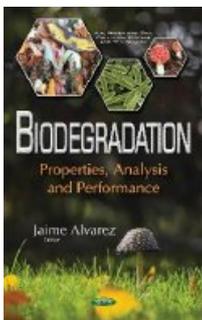
Natural Disasters Risk Assessment, Management Strategies & Challenges (Natural Disaster Research, Prediction & Mitigation Series)

Edited by Deanna Romero

Disasters are amongst the greatest challenges of the 21st century. Natural disasters have particularly witnessed an overwhelming escalation in the last three decades. The period between 1990 and 2005 holds the record for the highest frequency of natural disasters ever witnessed on earth. Between 2000 and 2005 for instance, natural disasters affected around 240 million people globally (UNISDR 2010). Almost 350 disasters were reported in 2015 alone, affecting 98.6 million people, causing over 22,000 deaths and resulting in an economic loss of around US\$ 66.5 billion (UNFCC, 2016). The United Nations International Strategy for Disaster Risk Reduction estimates that the economic losses from natural disasters for 2015 alone far exceed the mean annual estimate of US\$ 275 million (UNISDR, 2015a). This book reviews the risk assessment for natural disasters, as well as management strategies and challenges the world currently faces.

HB 9781536100976 £180.99 December 2016 Nova Science Publishers 240 pages 180x260mm

ENVIRONMENTAL SCIENCE, ENGINEERING & TECHNOLOGY

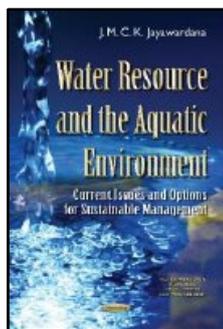


Biodegradation Properties, Analysis & Performance (Air, Water & Soil Pollution Science & Technology Series)

Edited by Jaime Alvarez

This book provides an overview of biodegradation. The first chapter provides a detailed description on the ability of *Rhodococcus UKMP-5M* to act as a biological tool to remediate phenol, chlorinated compounds, nitrile, oil spillage and cyanide which selection was primarily based on their large-scale presence in industrial wastewater. Chapter Two presents advances made in recent decades on the understanding of the metabolic capabilities of sulfate reducing bacteria (SRB) from marine and other types of sediment (i.e., freshwater, estuarine) for the biotransformation of carbon compounds and sulfate that are present as pollutants in several types of waters and soils. Chapter Three concentrates on the different parameters that influence biodegradation speed and energy release potential. Chapter Four reports and discusses several examples on biodegradation with bacteria and fungi of organochlorides, organophosphates, and more recently of pyrethroid pesticides. Chapter Five discusses heavy metals as biodegradation inhibitors of the forest litter in contaminated areas. Chapter Six introduces ecologically feasible ways of treating environments contaminated by BTEX (a mixture of benzene, toluene, ethylbenzene and xylene) based on efficient microbial metabolism.

HB 9781634857512 £180.99 September 2016 Nova Science Publishers 220 pages 180x260mm

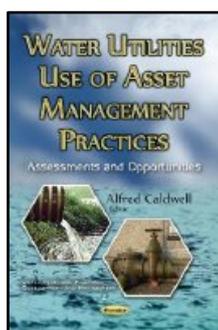


Water Resource & the Aquatic Environment Current Issues & Options for Sustainable Management (Water Resource Planning, Development & Management Series)

J M C K Jayawardana

One of the main challenges faced by humans today is finding a balance between economic development of respective countries and sustainable utilisation of Earth's resources. With the increase in the human population, demand for water resources is increasing globally. One of the challenges for water conservation in the future is the sustainability of current and future water resource allocation. Finding a balance between what is needed by humans and what is needed in the environment is an important step in the sustainability of water resources. With this in mind, sustainable utilisation of water resources, and conservation and management of aquatic ecosystems on Earth is an essential step towards the sustainable management of global water resources. CONTENTS: Water Resource & Aquatic Environment: Need for Sustainable Management; Water Quality; Water Pollution; Water Quality Monitoring; Lentic Systems; Lotic Systems; Watershed Management & Water Pollution Control; Index.

PB 9781634858816 £90.50 December 2016 Nova Science Publishers 100 pages 155x230mm



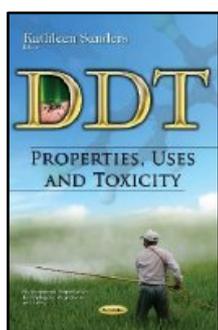
Water Utilities Use of Asset Management Practices Assessments & Opportunities (Water Resource Planning, Development & Management Series)

Edited by Alfred Caldwell

Recent catastrophic breaks in water mains and sewer discharges during storms are indicators of the nation's old and deteriorating water and wastewater infrastructure. EPA estimates that small water utilities -- those serving fewer than 10,000 people--may need about \$143 billion for drinking water and wastewater infrastructure repairs and replacement over 20 years. EPA and USDA provide the three largest sources of federal funding for water infrastructure. In a March 2004 report, the United States Government Accountability Office (GAO) found that water utilities may benefit from implementing asset management -- a tool used across a variety of sectors to manage physical assets, such as roads and buildings. This book examines what is known about the use of asset management among the nation's water utilities -- particularly small water utilities -- including benefits and challenges and steps EPA and USDA are taking to help small water utilities implement asset management.

PB 9781634859370 £90.50 December 2016 Nova Science Publishers 111 pages 155x230mm

INDUSTRIAL CHEMISTRY & MANUFACTURING TECHNOLOGIES



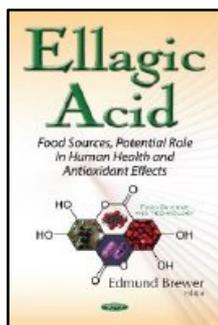
DDT

Properties, Uses & Toxicity (Environmental Remediation Technologies, Regulations & Safety Series)

Edited by Kathleen Sanders

Dichloro-diphenyl-trichloroethane (DDT) is the world famous synthetic organochlorine broad-spectrum insecticide used in the control of mosquito vectors of malaria and insect pests of agriculture in developing countries, due to its low cost and high efficiency. This book discusses properties, uses and toxicity of DDT. Chapter One reports the empty-orbital electronic structure and experimental data of dissociative electron attachment (DEA) to the gas-phase molecules DDT and its principal metabolite DDE, which possesses good electron-withdrawing abilities. Chapter Two reviews the past, present and future of DDT and pyrethroid resistance in *Aedes aegypti* (L.) and *Aedes albopictus* (Skuse). Chapter Three studies the photocatalytic selective oxidation of DDT.

PB 9781536100099 £90.50 December 2016 Nova Science Publishers 100 pages 155x230mm



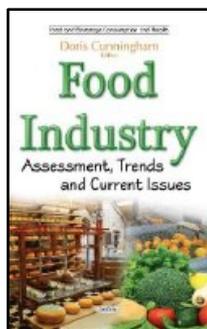
Ellagic Acid

Food Sources, Potential Role in Human Health & Antioxidant Effects (Food Science & Technology Series)

Edited by Edmund Brewer

Ellagic acid is a powerful bioactive polyphenolic compound showing a wide range of biological activities and potential beneficial effects on human health. In this book, Chapter One offers an overview of the main food sources of ellagic acid, its glycosides and ellagitannins. Chapter Two studies two Brazilian fruits rich in ellagic acid: the Camu-camu (*M. dubia*) and the Jaboricaba (*M. cauliflora*). Chapter Three also presents a collection of the main sources of ellagic acid, as well as structural and safety features related to its applications on diet. Chapter Four shows the effect of ellagic acid on mitochondrial related diseases with an emphasis on its mitochondrial targeting which contribute to these pathological conditions.

PB 9781634856584 £90.50 September 2016 Nova Science Publishers 150 pages 155x230mm

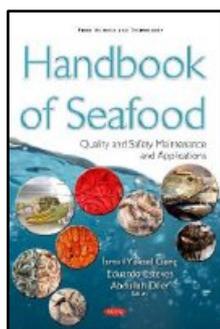


Food Industry Assessment, Trends & Current Issues (Food & Beverage Consumption & Health Series)

Edited by Doris Cunningham

This book provides an assessment of the food industry. It discusses trends and current issues. Chapter One gives an overview of the main microbial enzymes in the food industry. Chapter Two focuses on trends and challenges for the hygiene of conveyor belts in food production. Chapter Three identifies energy-saving opportunities (technological, organisational or behavioural) and describes tailored energy-saving measures in the food and drink industry. Chapter Four evaluates and compares the efficiency of winemaking in two developing countries (Ukraine and Bosnia and Herzegovina) from the perspective of their development. Chapter Five makes a comparison between Denominations of Origins (DO) in Castilla y León in a determined period of time of economical crisis of the wine industry.

HB 9781634857925 £152.50 September 2016 Nova Science Publishers 163 pages 155x230mm

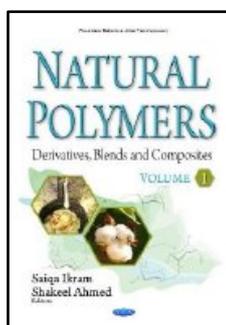


Handbook of Seafood Quality & Safety Maintenance & Applications (Food Science & Technology Series)

Edited by Ismail Yüksel Genç, Eduardo Esteves, Abdullah Diler

Seafood and related products have an important place in the human diet; it provides for the protein needed and has a nutritional composition that has favorable health impacts on human beings. Considering the rapid increase in the world population and the demand in terms of protein needs that are provided by seafood, the necessary need to assure the quality and safety of seafood products has been prioritised. Due to nutritional composition, neutral pH, high moisture content, weak connective tissue and living environment (fresh and seawater), seafood is very perishable. Maintaining the quality and safety of seafood needs higher attention compared to other food products. This handbook compiles recent methods and applications, as well as technologies utilised to guarantee the quality and safety of various types of seafood from harvesting to the retail level. The status of emerging and hurdle technology applications, genomic, mathematical and computer-based methods, quality economics together with chemical, sensory and microbiological changes, and quality/safety of seafood products are reviewed and discussed in this book. The emphasis on less-known or under-valued species from different locales was intentional. This handbook is an abridged, streamlined but relatively comprehensive reference for food engineers and technologists, producers from the industry, and undergraduate and graduate students studying this field of academia.

HB 9781634858236 £219.50 December 2016 Nova Science Publishers 375 pages 180x260mm

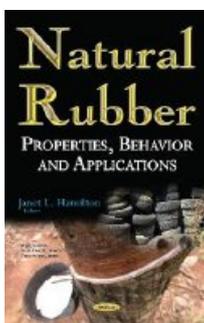


Natural Polymers Derivatives, Blends & Composites -- Volume I (Polymer Science & Technology Series)

Edited by Saiqa Ikram, Shakeel Ahmed

This book is a compiled contribution from experts in the field of natural polymers, and it is organised into two volumes. The purpose of this book is to provide an entire catalogue of natural polymers, beginning with their introduction, mass production, qualitative and quantitative characterisation and leading to their advanced applications in every aspect of life (i.e. from food packaging to biomedical studies such as cancer treatments). Overall, it compiles all abundant natural polymers originating from both plant and animal resources such as cellulose, carrageenan, xanthum gum, chitin, chitosan, etc. The derivatives of these natural polymers in the form of hydrogels, blends and composites are also compiled with their recent societal benefits and applications.

HB 9781634858311 £219.50 December 2016 Nova Science Publishers 307 pages 180x260mm

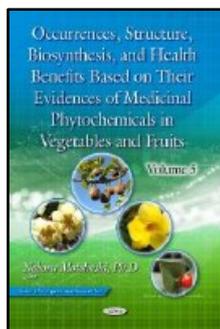


Natural Rubber Properties, Behavior & Applications (Polymer Science & Technology Series)

Edited by Janet L Hamilton

Natural Rubber (NR) is a renewable polymer endowed with remarkable properties including its high elasticity and high film forming capacity, properties that enable its use in a wide range of applications. In this book, Chapter One reviews properties, behavior and uses of NR. Chapter Two discusses NR properties and conventional applications, as well the development of new thermo-reversible cross linked NR. Chapter Three evaluates samples of natural rubber latex using a coaxial cylinder rheometer and, as from the data obtained, propose a model to determine the flow energy at different total solids contents. Chapter Four provides a review of the past, present and future perspectives of the vulcanization of natural rubber. Chapter Five investigates the effect of increasing MMT loading levels on the physico-mechanical properties of EVA/ devulcanized rubber (DVC rubber) blends. Chapter Six discusses in detail the parameters and conditions that could influence the degradation reaction of NR latex in the presence of hydrogen peroxide and UV light. Chapter Seven focuses specifically on the use of metal and metal oxide particles in NR, epoxidized natural rubber (ENR) and their respective blends reported between 2010 to 2015.

PB 9781634854542 £90.50 September 2016 Nova Science Publishers 136 pages 155x230mm

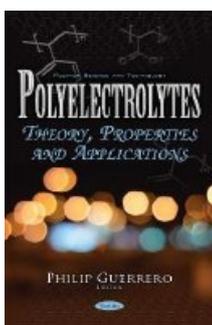


Occurrences, Structure, Biosynthesis, & Health Benefits Based on Their Evidences of Medicinal Phytochemicals in Vegetables & Fruits -- Volume 5 (Food & Beverage Consumption & Health Series)

Edited by Noboru Motohashi

Diverse phytochemical functions on vegetables and fruits are discussed. Each chapter of Volume 5 describes the components and health effects. These include: the nutritional/beneficial compounds of turmeric, followed by the mechanism and exacerbation of neuronal damage after cerebral ischemia on protective effects of a mushroom *Ganoderma lucidum* mycelia, anti-arthritis medicinal compounds for arthritis and joint ailments, medicinal phytochemicals and health effects in a tropical fruit *Garcinia indica* (kokum), as well as the metabolomic investigation of *Vaccinium myrtillus* (bilberry). These chapters will provide more advanced information to researchers studying novel chemotherapeutic development.

HB 9781634852739 £152.50 September 2016 Nova Science Publishers 200 pages 180x260mm



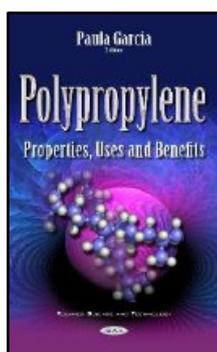
Polyelectrolytes

Theory, Properties & Applications (Polymer Science & Technology Series)

Edited by Philip Guerrero

In this book, Chapter One discusses the structural properties and phase behavior of neutral and partially charged diblock copolymers in solution. Chapter Two presents a comprehensive study of the complex physico-chemistry associated with the adsorption of polyelectrolyte layers, both single layer or multilayers formed for oppositely charged polyelectrolytes, onto solid surface, paying special attention to the adsorption of polyelectrolytes onto charged surfaces. Chapter Three presents the complexation of the linear, inherently hydrophobic, anionic polyelectrolyte poly[sodium(sulfamate/carboxylate)isoprene] (SCPI) with the cationic surfactant dodecyltrimethylammonium bromide (DTMAB), studied mainly by light scattering methods.

PB 9781634858366 £90.50 December 2016 Nova Science Publishers 112 pages 155x230mm



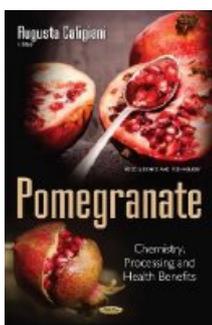
Polypropylene

Properties, Uses & Benefits (Polymer Science & Technology Series)

Edited by Paula Garcia

Polypropylene (PP) is a typical polymorphic polymer with α -form, β -form, γ -form, and mesomorphic smectic form modifications, and crystallises into diverse morphologies. In this book, Chapter One comprehensively reviews the kinds of self-assembly β -nucleating agents and the manipulation strategies in the practical processing to control the crystal structure and prepare high-performance PP products. Chapter Two discusses the molecular structure at the cross-linking point of stereoregular isotactic polypropylene (iPP) and syndiotactic polypropylene (sPP) gels in comparison with the crystal formed in the solid state such as film. Chapter Three investigates the thermal insulation performance of polypropylene as thermal insulator for a solar air collector in comparison with coconut fibre. Chapter Four reviews the mechanical properties, crystallisation and degradation of polypropylene due to nucleating agents, fillers and additives. Chapter Five examines polypropylene biodegradation. Chapter Six addresses the potential utilisation of different lignocellulosic biomasses for the development of green materials based on polypropylene, with the objective to elucidate the possibility of using the bio based materials for various industrial applications.

HB 9781536100082 £152.50 December 2016 Nova Science Publishers 160 pages 155x230mm



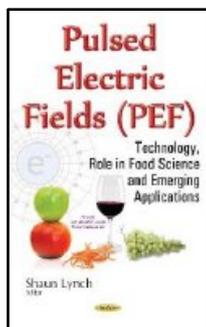
Pomegranate

Chemistry, Processing & Health Benefits (Food Science & Technology Series)

Edited by Augusta Caligiani

Pomegranates are increasingly distributed and consumed worldwide both as fresh fruit or processed products, like juices and food supplements. The present commercial success of this fruit and its purported health benefits are associated with an impressive increase of scientific research published on the pomegranate. The huge amount of new data produced every year by the scientific community necessitates a periodic review of the results. The aim of this book is to provide an update of the results in pomegranate research. Each chapter is conceived as an in-depth, state-of-the-art compilation on the main topics regarding pomegranates. This is to ensure the status of a reference manual for all the scientists approaching different aspects of pomegranate research and to the industrial sector in order to improve/develop the pomegranate chain. The choice of an edited collection originates from the need to have different specializations and a multi-disciplinary approach to describe all the different topics related to pomegranates, spanning from botany, chemistry, and nutrition to technology and medical research. Topics discussed in this book include pomegranate biodiversity and phytochemical composition of pomegranate pulp, peels, seeds and oil; polyphenols antioxidant activity, bioavailability and metabolism by gut microbiota; current evidence supporting the benefits of pomegranate products in the prevention and treatment of cardiovascular disease and cancer; allergies to pomegranate; pomegranate processing and recovery of waste from pomegranate juice production for their possible re-use as a source of nutraceuticals.

HB 9781634856874 £199.99 September 2016 Nova Science Publishers 291 pages 180x260mm

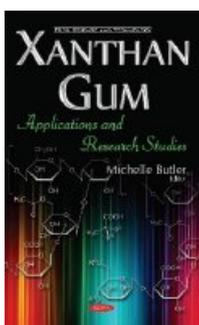


Pulsed Electric Fields (PEF) Technology, Role in Food Science & Emerging Applications (Food Science & Technology Series)

Edited by Shaun Lynch

Pulsed Electric Fields (PEF) is a method used in non-thermal food preservation. Chapter One of this book provides inactivation kinetic models for PEF treatment. Chapter Two discusses PEF in the winemaking process. Chapter Three reviews fruit juice preservation. Chapter Four investigates the effect of amplitude and treatment time of PEF on *E. coli* in carrot juice. Chapter Five analyzes the contribution of major electrical parameters on PEF treatment of *Salmonella typhimurium* in grape juice. Chapter Six reviews the effect of PEF on the quality of fresh apple fruits. Chapter Seven examines further potential of PEF treatments for the food industry. Chapter Eight discusses network simulation of the electrical response to PEF of ion-exchange membranes in electrodialysis.

HB 9781634854511 £152.50 December 2016 Nova Science Publishers 173 pages 155x230mm



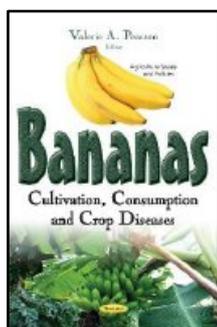
Xanthan Gum Applications & Research Studies (Food Science & Technology Series)

Edited by Michelle Butler

Xanthan gum is a microbial heteropolysaccharide of high molecular weight produced through fermentation by bacteria of the genus *Xanthomonas* that have a wide range of applications in food and non-food industries due to their physical properties and rheological characteristics. In this book, the first chapter discusses the characteristics, properties, and the use of xanthan gum in the food industry. Chapter Two provides a review of the use of xanthan gum in the nixtamalisation process. Chapter Three focuses on the application of xanthan gum to formulate sustained release tablets and floating drug delivery systems. Chapter Four interprets and models the rheological behavior of oil-in-water emulsions stabilised singly with xanthan gum or combined with different hydrocolloids, like guar gum or potato starch. Chapter Five discusses the relevance of xanthan gum to formulate chickpea flour-based gluten-free batters and muffins.

HB 9781536100105 £152.50 December 2016 Nova Science Publishers 60 pages 155x230mm

INDUSTRY & INDUSTRIAL STUDIES

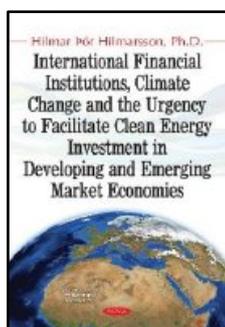


Bananas Cultivation, Consumption & Crop Diseases (Agriculture Issues & Policies Series)

Edited by Valerie A Pearson

Bananas arise as one of the most popular fruits consumed all around the world. Banana belongs to the genus *Musa* from the family Musaceae. It is original from tropical regions and presents a strong ability to protect itself from the oxidative stress caused by extreme climatic conditions such as intense sunshine and high temperature. For this protection, bananas increase the production of bioactive compounds with antioxidant activity, which protect the fruit from the oxidative damage. This book provides current research on the cultivation, consumption and crop diseases of bananas. CONTENTS: Preface; *Musa* spp. -- Functional Properties, Biofortification, & Bioavailability; Chemical Composition & Bioactive Compounds in Bananas & Postharvest Alterations; Sustainable Management of Banana Waste through Renewable Energy & Bio-Fertilizer Generation; Banana Pseudostem Sap: An Important Agro-waste for Diversified Applications Including Textile; Banana as a Food Allergen Source; Index.

PB 9781634854184 £90.50 September 2016 Nova Science Publishers 155 pages 155x230mm

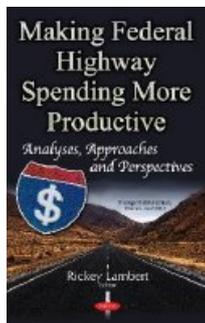


International Financial Institutions, Climate Change & the Urgency to Facilitate Clean Energy Investment in Developing & Emerging Market Economies (Financial Institutions & Services Series)

Hilmar Þór Hilmarsson

Climate change is perhaps among the most serious challenges that humankind has ever faced and perhaps the greatest market failure the world has ever seen. At the same time, clean unutilised energy resources around the world are available that could help remedy climate and environmental problems while also improving people's lives. It is likely that most of the increased demand for energy in the future will be in the developing and emerging world. This is also where most unutilised clean energy sources are located. The challenge of climate change requires strong comprehensive and firm action from the international community. Clean energy projects tend to be large, capital intensive and long term. They require long term commitment from all the players involved as well as mutual trust. International financial institutions (IFIs), including the World Bank Group and regional development banks can play a key role in promoting the use of clean energy sources by facilitating clean energy investment in developing and emerging markets. This book focuses on those challenges, mainly using geothermal energy projects as examples, but also by providing an example of a large hydropower project to illustrate how the funding and risk mitigation instruments of IFIs, as well as national agencies such as export credit agencies (ECA)s, have been used to mobilise funds in a difficult investment environment.

HB 9781536100457 £90.50 December 2016 Nova Science Publishers 160 pages 155x230mm

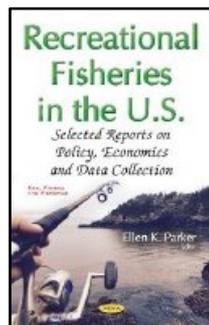


Making Federal Highway Spending More Productive Analyses, Approaches & Perspectives (Transportation Issues, Policies & R&D Series)

Edited by Rickey Lambert

Federal spending on highways totaled \$46 billion in 2014, roughly a quarter of total public spending on highways. About 95 percent of that amount was spent for the construction of highways or for their improvement, expansion, and major repair, and the remainder was spent for operation and maintenance. Recently, two factors have combined to highlight the importance of making each dollar spent on federal highway programs more productive economically. First, the federal government's main source of funds for highways -- gasoline tax revenues dedicated to the Highway Trust Fund -- has been insufficient to pay for federal spending on highways. Since 2008, lawmakers have transferred about \$143 billion from other sources to maintain a positive balance in the trust fund. Second, adjusted for changes in construction costs, total federal spending on highways buys less now than at any time since the early 1990s. This book discusses approaches to making federal highway spending more productive, as well as the status of the Highway Trust Fund and options for paying for highway spending.

HB 9781536103144 £119.50 December 2016 Nova Science Publishers 160 pages 155x230mm

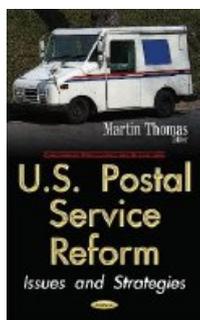


Recreational Fisheries in the U.S. Selected Reports on Policy, Economics & Data Collection (Fish, Fishing & Fisheries Series)

Edited by Ellen K Parker

Recreational fishing is a traditional American pastime integral to social, cultural, and economic life in coastal communities across the nation. This time-honored activity allows millions access to America's great outdoors each year, while generating billions of dollars in economic activity. Traditionally shaped by commercial forces, demographic, market, and ecological shifts are changing the nature of U.S. fisheries. Our nation's expansive coastal and ocean resources face increasing pressure as coastal populations grow, and more people pursue recreational opportunities in ecologically important marine and estuarine areas. The purpose of this book is to provide guidance for Agency consideration in its deliberations pertaining to development and maintenance of enduring and sustainable high quality saltwater recreational fisheries. This policy identifies goals and guiding principles to be integrated into NOAA's National Marine Fisheries Service's (NMFS) planning, budgeting, decision-making, and activities, and includes examples of implementation concepts and strategies supported by NMFS. Moreover, this book provides a detailed overview of the operating structure of the "average" Northeast for-hire head boat and charter boat, and estimates the economic activity that for-hire businesses contribute to the Northeast's economy as measured by total employment, labour income, and sales.

HB 9781634855952 £142.99 September 2016 Nova Science Publishers 151 pages 155x230mm



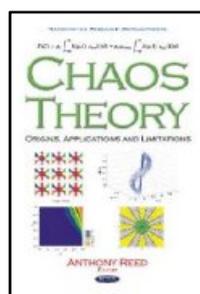
U.S. Postal Service Reform Issues & Strategies (Government Procedures & Operations Series)

Edited by Martin Thomas

Congress designed the U.S. Postal Service (USPS) to be a self-supporting government agency. Since 1971, the agency has not relied upon annual appropriations to cover its operating costs. Rather, USPS has funded its operations mostly through the sales of postage and postal products and services. Since FY2007, however, the agency has run more than \$40 billion in deficits and has reached its statutory borrowing limit. The agency does receive an annual appropriation of approximately \$90 million per year, which amounts to about 0.1% of USPS's \$65 billion operating budget. USPS's troubled financial condition has raised concerns about the viability of the agency. Many postal reform bills have been introduced in the 113th and 112th Congresses. These bills have proposed altering many aspects of postal operations, from raising the rates mailers pay to reducing the days of delivery and closing USPS post offices and mail sorting facilities. This book provides background information on the responsibilities, financial challenges and workforce issues facing the U.S. Postal Service. Additionally, it covers the current strategies and initiatives under development and discusses further options for postal reforms.

HB 9781536104639 £119.50 January 2017 Nova Science Publishers 143 pages 155x230mm

MATHEMATICS

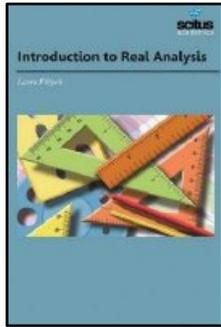


Chaos Theory Origins, Applications & Limitations (Mathematics Research Developments Series)

Edited by Anthony Reed

This book provides new research on Chaos Theory. CONTENTS: Preface; Chaos Theory & Financial Statements; Applying Chaos Theory to Work: The Chaos Theory of Careers; Application of Chaos Theory to Ventricular Wall Biomechanics; Complexity & Synchronization in the Process of Biochemical Substance Exchange in a Diffusively Coupled Ring of Cells; Unveiling the Escape Mechanism of Orbits in Hamiltonian Systems with Multiple EXIT Channels; Index.

HB 9781536103373 £90.50 December 2016 Nova Science Publishers 170 pages 155x230mm



Introduction to Real Analysis (Mathematics Series)

Edited by Lavra Filipek

Real analysis is a branch of mathematical analysis dealing with the real numbers and real-valued functions of a real variable. In particular, it deals with the analytic properties of real functions and sequences, including convergence and limits of sequences of real numbers, the calculus of the real numbers, and continuity, smoothness and related properties of real-valued functions. The real numbers have several important lattice-theoretic properties that are absent in the complex numbers. Most importantly, the real numbers form an ordered field, in which addition and multiplication preserve positivity. Moreover, the ordering of the real numbers is total, and the real numbers have the least upper bound property. These order-theoretic properties lead to a number of important results in real analysis, such as the monotone convergence theorem, the intermediate value theorem and the mean value theorem. A sequence is usually defined as a function whose domain is a countable totally ordered set, although in many disciplines the domain is restricted, such as to the natural numbers. In real analysis a sequence is a function from a subset of the natural numbers to the real numbers. This textbook is a reference tool for junior or senior mathematics majors and science students with a serious interest in mathematics.

HB 9781681171890 £141.99 January 2016 Scitus Academics 282 pages 160x235mm

MECHANICAL ENGINEERING

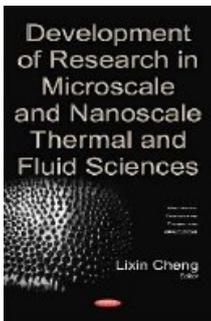


Advances in Materials Science Research Volume 26 (Advances in Materials Science Research Series)

Edited by Maryann C Wythers

This book provides readers with the latest developments in materials science research. Chapter One discusses advantages for optical applications with transparent polycrystalline ceramic materials. Chapter Two reviews $K0.5Na0.5NbO3$ -based lead-free transparent ceramics. Chapter Three describes the operation principles and requirements for photodetector (PD) devices, followed by the latest developments in materials and device architectures. Chapter Four studies applications of infrared thermography to the analysis of steel welded junctions. Chapter Five discusses Suspension Plasma Spraying (SPS) as a method that uses liquid feedstock. Chapter Six reviews the recent studies on the structural, electronic, optical and mechanical properties of silicene-derivative structures. In Chapter Seven, the correlations between experimental and theoretical results have been established in order to gain complete insight into structural features which enable modeling and synthesis of novel APD molecules with potential usage in various industries. Chapter Eight considers the analytical capabilities of two methods for studying the composition of gold-bearing samples.

HB 9781536100594 £199.99 December 2016 Nova Science Publishers 270 pages 155x230mm

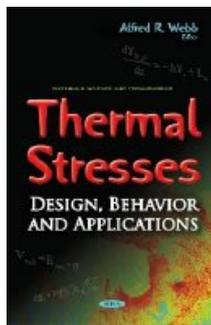


Development of Research in Microscale & Nanoscale Thermal & Fluid Sciences (Mechanical Engineering Theory & Applications Series)

Edited by Lixin Cheng

Applications of microscale and nanoscale thermal and fluid transport phenomena are involved in traditional industries and highly specialized fields such as bioengineering, chemical and biochemical engineering, micro-fabricated fluidic systems, microelectronics, aerospace technology, micro heat pipes, chips cooling etc. The research in the relevant subjects has been becoming especially important since the late 20th century. However, microscale and nanoscale thermal and fluid transport phenomena are quite different from those at conventional scale or macroscale. Research on the thermal and fluid transport phenomena at microscale and nanoscale has extensively been conducted to understand the very complex phenomena in the past decades. New instrumental methods have been applied to measure the basic physical parameters at microscale and are continuously under development. New test data have been obtained through state-of-the art experimental facilities. New prediction methods and mathematical models have also been developed to cover both macroscale and microscale channels and are being continuously under investigation. However, there are quite contradictory results in the available research. Furthermore, new theories and mechanisms are also urgently needed for the fluid flow and heat transfer phenomena at microscale and nanoscale. There are many issues to be clarified from both theoretical and applied aspects. In recent years, interdisciplinary research areas are also rapidly under development. For example, as a new research frontier of nanotechnology, the research of nanofluid two-phase flow and thermal physics is rapidly growing. However, it has also posed new challenges as there are quite contradictory results in the available research. There are still a number of issues needed to be solved in the practical applications.

HB 9781634854627 £219.50 September 2016 Nova Science Publishers 305 pages 180x260mm



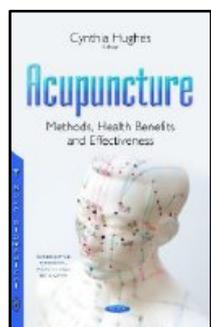
Thermal Stresses **Design, Behavior & Applications (Materials Science & Technologies Series)**

Edited by Alfred R Webb

Thermal stresses which originate as a consequence of different thermal expansion coefficients of components of multi-component materials represent an important phenomenon in multi-component materials. These stresses are usually investigated by computational and experimental methods are still of interest to materials scientists and engineers. In this book, the design, behavior and applications of thermal stresses are discussed. Chapter One introduces a full three-dimensional, non-isothermal computational fluid dynamics (CFD) model of an operating PEM fuel cell which was developed to simulate the thermal stresses inside the cell. Chapter Two deals with mutual comparison of different analytical models of thermal stresses in a multi-particle-matrix system with isotropic spherical particles which are periodically distributed in an isotropic infinite matrix. Chapter Three deals with an analytical model of thermal stresses originating during a cooling process of an anisotropic solid elastic continuum. Chapter Four provides an analysis on thermal loads of nozzle in low-temperature reactor piping. Chapter Five investigates the influence of the thermal stresses on the performances of the integrated-planar solid oxide fuel cell IP-SOFC and essentially the durability of the cell elements which is a major technical barrier to the commercial viability. Chapter Six studies the amino nitrogen metabolism of *Saccharomyces cerevisiae* as it is protected by SO₂ under thermal stress.

HB 9781634853736 £180.99 September 2016 Nova Science Publishers 230 pages 155x230mm

MEDICINE

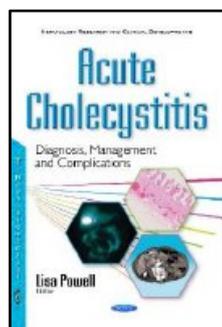


Acupuncture **Methods, Health Benefits & Effectiveness (Alternative Medicine, Health & Wellness Series)**

Edited by Cynthia Hughes

Acupuncture is a traditional Chinese practice which heals disturbed energy flow throughout meridians with the use of acupuncture needles. It has gained growing popularity as an alternative and complementary therapeutic intervention in Western societies. This book reviews different methods, health benefits and the effectiveness of acupuncture based on current studies. Chapter One examines the use of acupuncture in oral medicine, while Chapter Two discusses its use in the treatment of variety of neuromusculoskeletal pain syndromes. Chapter Three introduces a novel approach for quantitative assessment of acupuncture based on surface electromyographs (SEMG) decomposition. The final chapter uses student-run medical clinics to provide a mutually beneficial acupuncture model for medical students and the chronically displaced populations.

HB 9781634855990 £152.50 September 2016 Nova Science Publishers 150 pages 155x230mm

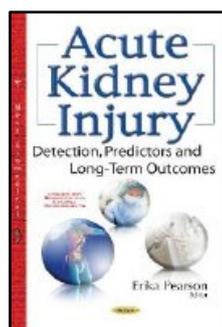


Acute Cholecystitis **Diagnosis, Management & Complications (Hepatology Research & Clinical Developments Series)**

Edited by Lisa Powell

Acute cholecystitis is a pathological entity of inflammatory origin, with a high prevalence worldwide. The term cholecystitis defines an inflammation of the gallbladder. Although most people with gallstones do not have symptoms and will not go on to develop cholecystitis, cholecystitis occurs most commonly due to blockage of the cystic duct with gallstones (cholelithiasis). In this book, Chapter One provides a contemporary review of acute cholecystitis (AC). Chapter Two examines the diagnosis and treatment options for AC. Chapter Three focuses on the diagnostic work-up of patients with AC. Chapter Four discusses early and delayed cholecystectomy as a treatment for AC. Chapter Five examines the current literature as it pertains to the management of patients who present with Grade II (moderate) acute cholecystitis, specifically looking at the timing of operation and the appropriateness of drainage procedures. Chapter Six reviews cholecystitis in systemic lupus erythematosus.

PB 9781634857444 £90.50 September 2016 Nova Science Publishers 100 pages 155x230mm

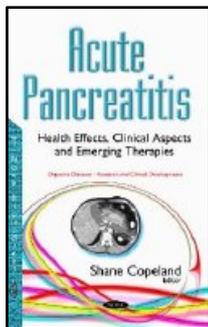


Acute Kidney Injury **Detection, Predictors & Long-Term Outcomes (Nephrology Research & Clinical Developments Series)**

Edited by Erika Pearson

Acute kidney injury (AKI) is a major health concern because it is associated with increased morbidity and mortality. While therapies for AKI have improved in recent years, the prevalence of this condition is still high and continues to increase. Considering these clinical issues, the appropriate detection and management of risk factors related to AKI are important issues for clinicians managing AKI patients. This book discusses the forms of detection, predictors and long-term outcomes for acute kidney injuries.

HB 9781536103793 £90.50 December 2016 Nova Science Publishers 175 pages 155x230mm

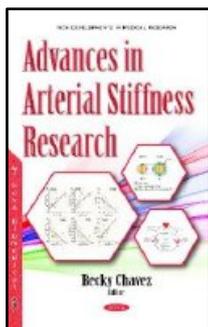


Acute Pancreatitis Health Effects, Clinical Aspects & Emerging Therapies (Digestive Diseases -- Research & Clinical Developments Series)

Edited by Shane Copeland

Acute pancreatitis (AP) is the inflammatory process secondary to damage of the pancreatic acinar cells. AP is one of the most common diseases of the gastrointestinal tract, leading to significant emotional, physical, and financial burden for society. The diagnosis of acute pancreatitis is often established by clinical symptoms and laboratory testing. Chapter One of this book reviews the clinical characteristics of acute pancreatitis in children based on the clinically based diagnostic criteria for childhood pancreatitis, which until recently was not available. Chapter Two presents an update on the current state of walled-off pancreatic necrosis. Chapter Three provides a review of Purtscher's Retinopathy. Chapter Four examines the impact of obesity on the severity of AP. Chapter Five discusses several advances in the management of AP, from classical methods to more advanced options. Chapter Six discusses management of acute biliary pancreatitis. Chapter Seven reviews radiology of AP and the complications associated with it. Chapter Eight studies the use of antibiotics in AP. The final chapter explores the therapeutic effect of Shenmai injection (SMI) on acute experimental pancreatitis and underlying mechanisms.

HB 9781634852296 £152.50 May 2016 Nova Science Publishers 180 pages 155x230mm

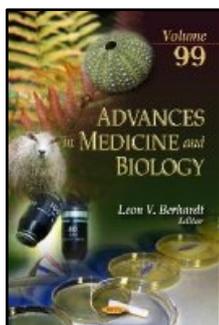


Advances in Arterial Stiffness Research (New Developments in Medical Research Series)

Edited by Becky Chavez

This book provides current research advances on arterial stiffness. Chapter One addresses the pulmonary vascular resistance (PVR) and total pulmonary vascular capacitance (Cp) product of the pulmonary circulation as a global estimate of right ventricular (RV) afterload, the assessment of the local arterial stiffness indices and its relationship with PVR and Cp, and finally, reviews the cause-effect relationships between large/conduit stiffening and distal/resistive vascular disease. Chapter Two discusses local and regional arterial stiffness measurement in clinical practice. Chapter Three reviews the processes involved in the pathogenesis of arterial stiffness in COPD, and the possible role of COPD therapy in vascular alterations. Chapter Four reviews links between bone turnover, vascular calcifications and arterial stiffness. Chapter Five examines ambulatory arterial stiffness index during pregnancy in Type 1 diabetes mellitus. Chapter Six provides a review on the pulse wave velocity and cardiovascular morbidity and mortality in patients on renal replacement therapy. Chapter Seven focuses on the higher arterial stiffness related to blood pressure overresponse to arm and leg resistance exercises in elderly individuals.

HB 9781634858380 £152.50 December 2016 Nova Science Publishers 153 pages 155x230mm

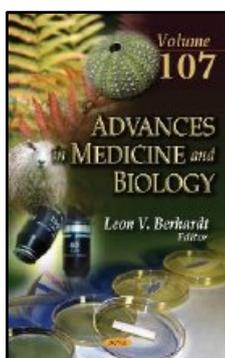


Advances in Medicine & Biology Volume 99 (Advances in Medicine & Biology Series)

Edited by Leon V Berhardt

The chapters in this volume present the latest developments in medicine and biology. Chapter One highlights the potential and limitations of the zebrafish model for studying lipopolysaccharide (LPS)-induced inflammation and endotoxin tolerance (ET). Chapter Two evaluates the health benefits and risks of shellfish consumption. Chapter Three provides an overview of Chiari malformations (CMI), discusses the diagnosis and surgical treatment options, and shares the authors' institutional experience with the treatments of CMI. Chapter Four provides an overview of the current state-of-the-art on the effects of PolyChlorinated Biphenyls (PCBs) exposure during embryonic development and the potential long term effects on resulting offspring. Chapter Five examines the tissue reaction to acellular implants in acute spinal cord injury. Chapter Six reviews plantar fibromatosis. The last chapter discusses the optimal breathing technique for relaxation.

HB 9781634850803 £180.99 May 2016 Nova Science Publishers 198 pages 180x260mm

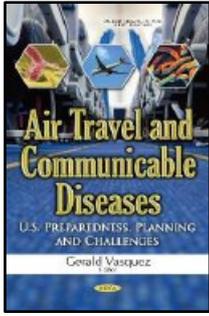


Advances in Medicine & Biology Volume 107 (Advances in Medicine & Biology Series)

Edited by Leon V Berhardt

The chapters in this volume present the latest developments in medicine and biology. Chapter One reviews the antitumor effects of lithium carbonate. Chapter Two analyses the current evidence on the role of epigenetic mechanisms involved in the progression of various types of cancer and their clinical relevance. Chapter Three examines pregnancy and hemodialysis. Chapter Four focuses on the pharmacokinetics, efficacy and safety of levonorgestrel. Chapter Five discusses challenges and management of childhood obesity in the United Kingdom. Chapter Six reviews dynamic and integrated synaptic processing in sex-steroid sensitive medial amygdala of female rats. Chapter Seven studies the characterization of anti-coxsackie virus B3 constituents of Scabiosa arenaria Forssk by reversed phase-high-performance liquid chromatography. Chapter Eight provides a review of risk factors, diagnosis and management of congenital upper limb anomalies. Chapter Nine summarizes the current knowledge on genetics, environmental factors, clinical characteristics, medical, laser and surgical treatment options of exfoliation syndrome and exfoliative glaucoma.

HB 9781536100563 £180.99 December 2016 Nova Science Publishers 205 pages 155x230mm

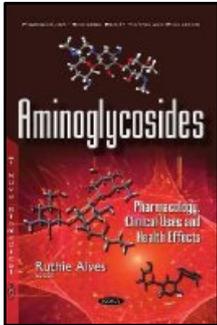


Air Travel & Communicable Diseases U.S. Preparedness, Planning & Challenges (Public Health in the 21st Century Series)

Edited by Gerald Vasquez

Past communicable diseases, such as the recent Ebola epidemic, have resulted in many deaths and highlight the potential economic cost of disruptions to air travel and the U.S. and global economies. This book examines the extent to which selected U.S. airports and airlines have plans for responding to communicable disease threats from abroad and to which a national aviation-preparedness plan guides preparedness; and the challenges that U.S. airports and airlines have faced when responding to threats and any actions taken to address them.

HB 9781536101881 £142.99 December 2016 Nova Science Publishers 180 pages 155x230mm

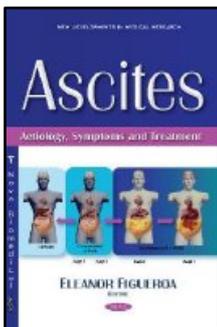


Aminoglycosides Pharmacology, Clinical Uses & Health Effects (Pharmacology -- Research, Safety Testing & Regulation Series)

Edited by Ruthie Alves

Aminoglycosides are a commonly used class of antibiotic worldwide, with examples including gentamicin, tobramycin and amikacin. Their low cost, together with their effectiveness against Gram-negative organisms, including *Pseudomonas aeruginosa*, makes them a valuable tool in treating infections. In addition, aminoglycosides have demonstrated lower rates of resistance in both community and healthcare settings when compared with many other antimicrobials and exhibit synergistic activity with beta-lactams against certain Gram-positive organisms, such as streptococcus and enterococcus. Unfortunately, aminoglycosides exhibit a narrow therapeutic index, which can result in toxicity if care is not taken with their use. This book reviews the pharmacology, clinical uses and health effects of aminoglycosides.

PB 9781536101713 £90.50 December 2016 Nova Science Publishers 101 pages 155x230mm

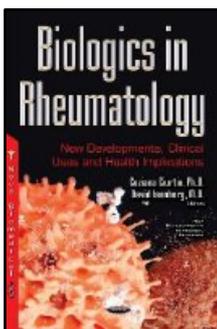


Ascites Aetiology, Symptoms & Treatment (New Developments in Medical Research Series)

Edited by Eleanor Figueroa

Ascites can result from malignant and non-malignant diseases. The most common cause of non-malignant ascites is related to hepatic cirrhosis. Malignant ascites is associated with a variety of primary tumors and account for 10% of all causes of ascites. This book provides research on the aetiology, symptoms and treatment of ascites. Chapter One summarizes the immune response mechanisms involved in the pathogenesis of human liver cirrhosis at the cellular and molecular levels. Chapter Two summarizes the new findings about the immune response mechanisms and the consequent inflammatory status involved in the pathogenesis of human liver cirrhosis, related with the aetiology, at the cellular and molecular levels. Chapter Three addresses the mechanism of malignant ascites production and covers all clinical aspects of tunneled catheters and tunneled ports including indication, contraindication, device design, technical procedure considerations and, complication. Chapter Four reports information about the management of malignant ascites in ovarian cancer and discusses the involvement of malignant ascites in dissemination, angiogenesis, migration, invasion and apoptosis of ovarian cancer cells.

PB 9781634854597 £90.50 September 2016 Nova Science Publishers 102 pages 155x230mm

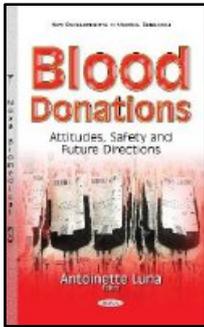


Biologics in Rheumatology New Developments, Clinical Uses & Health Implication (New Developments in Medical Research Series)

Edited by Coziana Ciurtin, David Isenberg

Significant progress has been acquired in the treatment of rheumatic conditions with the introduction of biologic therapies, which has enabled better control of disease activity and improved patients' long-term outcome. Apart from several biologic treatments already licensed for use in autoimmune rheumatic conditions, numerous other agents are currently under investigation. This rapid expansion of the therapeutic armamentarium requires a critical analysis of individual biologic options and their clinical indications, in order to facilitate the optimal use of these new therapies. The authors felt that a comprehensive book revisiting all the evidence available regarding the efficacy, cost-effectiveness and health implications of the use of biologics in rheumatology was needed in order to integrate the clinical, ethical and socio-economic aspects related to their use. This book is aimed at specialist doctors, trainees, nurses and health professionals working in the field of rheumatology. It critically appraises the level of evidence behind the use of biologic agents in diverse autoimmune diseases, comprising separate chapters which focus on rheumatoid arthritis, systemic lupus erythematosus, myositis, systemic sclerosis, Sjogren's syndrome, seronegative spondyloarthropathies, psoriatic arthritis and psoriasis, small, medium and large vessel vasculitis, osteoporosis, and interstitial lung disease associated with rheumatic conditions. In addition, the book explores aspects related to the use of biologic agents, such as ethical considerations of consenting patients to take part in clinical trials with biologics, and adolescent and adult rheumatology nurse perspectives related to patients' benefits of biologic therapies. Particular interest is given to the use of biologics during pregnancy and assessment of their infectious risks.

HB 9781634852746 £257.50 September 2016 Nova Science Publishers 622 pages 180x260mm

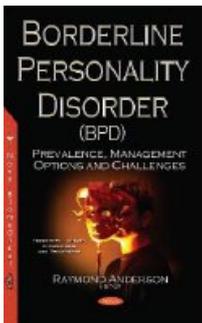


Blood Donations Attitudes, Safety & Future Directions (New Developments in Medical Research Series)

Edited by Antoinette Luna

This book discusses the global attitudes regarding blood donations, its safety and future directions. Chapter One provides a brief overview of the ethics of blood donations. Chapter Two focuses on the epidemiological aspects of the hepatitis C virus infection among seekers of serological tests in blood banks in Pará, Brazilian Amazon. Chapter Three discusses statistical control of the production of blood components using variables and attributes charts, and capacity indexes. Chapter Four demonstrates the use of cluster analysis and item response theory for the assessment of transfusion-related knowledge of nurses. Chapter Five reviews a quantitative/qualitative approach to better understand motivations of apheresis donors in Quebec, Canada.

PB 9781634854573 £90.50 September 2016 Nova Science Publishers 130 pages 155x230mm



Borderline Personality Disorder (BPD) Prevalence, Management Options & Challenges (Psychiatry -- Theory, Applications & Treatments Series)

Edited by Raymond Anderson

Borderline personality disorder (BPD) is a particularly complex psychiatric condition. People with this disorder have an unstable and insecure self-image, a dangerous propensity to self-harm and suicidal behaviors and transient and recurrent dissociative symptoms. In this book, Chapter One discusses challenges and complexities of BPD in adolescence. Chapter Two provides a theoretical and practical approach for the management of patients with a BPD diagnosis and their related maladaptive behaviors when admitted into mental health hospitals. Chapter Three analyzes the borderline maladaptive behaviors (BMBs) of inpatients with a diagnosis of BPD. Chapter Four reviews impact on life events and the need for psycho-diagnostic classification of the trauma, abuse and dissociation in patients with BPD. Chapter Five explores cross-modal integration of emotional auditory-facial stimuli in BPD, particularly emotionally congruent auditory-visual stimuli facilitation effect and its association with cooperativeness.

PB 9781536102901 £78.50 December 2016 Nova Science Publishers 135 pages 155x230mm

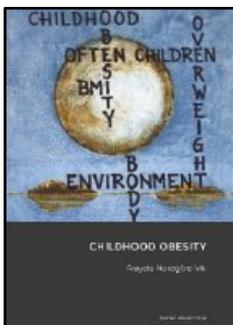


Building Mental Health Capacity in Haiti Through Collaborative Partnerships (Mental Illnesses & Treatments Series)

Guerda Nicolas, Gemima St Louis, Castagna Lacet

The increasing focus on mental health across the globe calls for guidance on how mental disorders manifest across different cultures and suggests the best practice models for addressing these issues from a cultural context. Additionally, in countries with limited resources and increased susceptibility to natural disasters, the call is even more urgent. In addition to poverty and limited resources, low- and middle-income countries (LMICs) are most vulnerable to disasters, which make the need for culturally sensitive and sustainable mental health programs even greater. This monograph provides a framework for how to address mental health issues internationally in collaboration with local partners to create sustainable programs. Specifically, this monograph provides didactic and practical examples using a mental health-training program that has been implemented in Haiti for the past 20 years. Successes and challenges, as well as lessons learned and recommendations for other practitioners and researchers, are provided. This monograph is a guidebook focusing on how to implement mental health training programs internationally.

HB 9781634851695 £90.50 December 2016 Nova Science Publishers 70 pages 155x230mm

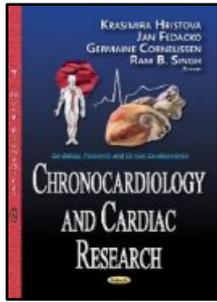


Childhood Obesity

Froydis Nordgard Vik

There is little dispute that childhood obesity is a worldwide public health challenge of major concern. Societal changes have profoundly influenced the behaviours of children and youth. Childhood obesity increases the risk of overweight and obesity in adulthood, making prevention of childhood obesity in early ages important. This book investigates different aspects of childhood obesity, potential causes and different behaviours/determinants that influence childhood overweight and obesity. Models for behaviour change needed for planning public health projects are also included. This book may be useful for academics, including students in public health, health promotion and epidemiology, and also professionals that are interested in this field of research.

PB 9788283141054 £29.95 January 2017 Portal Books 62 pages 170x240mm

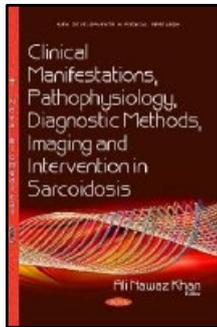


Chronocardiology & Cardiac Research (Cardiology Research & Clinical Developments Series)

Edited by Krasimira Hristova, Jan Fedacko, Germaine Cornelissen, Ram B Singh

This book brings evidence to the public domain about the role of time in cardiovascular function and dysfunction that results in a number of cardiovascular diseases. The book is divided into three parts and covers the subjects extensively. Chronocardiology is not new to cardiologists, but it needs to be introduced to mainstream medicine, which is the main purpose of the editors of this volume.

HB 9781634855693 £219.50 September 2016 Nova Science Publishers 330 pages 180x260mm

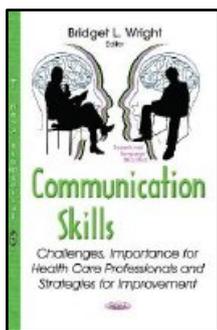


Clinical Manifestations, Pathophysiology, Diagnostic Methods, Imaging & Intervention in Sarcoidosis (New Developments in Medical Research Series)

Edited by Ali Nawaz Khan

Sarcoidosis is a multisystem granulomatous disease of unknown etiology that is characterised by noncaseous epithelioid cell granulomas, which may affect almost any organ in the body. Intrathoracic involvement is common and accounts for most of the morbidity and mortality associated with this disease. The diagnosis is based on the total exclusion of other granulomatous disorders. The organs that are commonly involved are the lymph nodes, lungs, liver, spleen, skin, and eyes; these organs can be involved individually or in combination. The correlation of the clinical, radiological features along with the pathologic finding of non-caseating epithelioid cell granulomas is vital to establish the diagnosis. There is no single precise cause attributed to the causation of this disease. Genetic factors are suspected, due to the observation that racial groups such as African Americans, West Indians and Asians have a higher prevalence of sarcoidosis. Familial sarcoidosis is well-known, which may be attributed to genetic factors or the sharing of a similar environment. Environmental factors may also play a role by involving the uptake and processing of unknown antigens by the respiratory system.

PB 9781634858328 £90.50 December 2016 Nova Science Publishers 126 pages 155x230mm

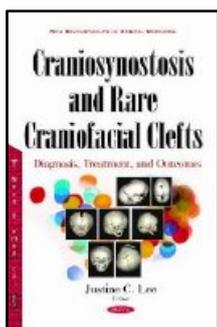


Communication Skills Challenges, Importance for Health Care Professionals & Strategies for Improvement (Speech & Language Disorders Series)

Edited by Bridget L Wright

The authors of this book provide current research on the challenges of communication skills, its importance for health care professionals and strategies for improvement. Chapter One explores the literature that studies the impact of electronic medical record use on communication between physicians and patients. Chapter Two reviews communicating with the psychologically distressed patient. Chapter Three reviews major theories of neurocommunication intended as the application of the findings of neurosciences for the study of interprofessional communication and behavior in healthcare. Chapter Four studies decision-making models in patients with depression.

PB 9781634855655 £78.50 September 2016 Nova Science Publishers 90 pages 155x230mm

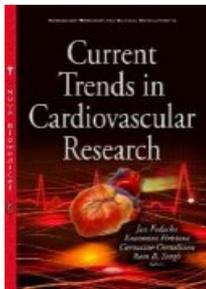


Craniosynostosis & Rare Craniofacial Clefts Diagnosis, Treatment & Outcomes (New Developments in Medical Research Series)

Edited by Justine C Lee

Craniosynostosis and rare craniofacial clefts represent overlapping spectra of craniofacial disorders that present significant multi-system challenges in reconstructive surgery. Caused by the premature fusion of cranial bones, craniosynostosis may occur in isolation or as a part of a syndrome. The consequences of untreated craniosynostosis are significant to the neuropsychological development, as well as to the overall appearance of the child. Rare craniofacial clefts, unlike the common cleft lip and palate, frequently affect multiple functional units of the face. Similar to craniosynostosis, rare clefts may occur in isolation or as a manifestation of a rare craniofacial syndrome. For both entities, reconstructive complexity may range from routine to extraordinarily complex requiring multiple surgeries with the involvement of multiple disciplines. In the ensuing chapters, 27 authors from the United States and abroad share their expertise on the current knowledge in craniosynostosis and rare craniofacial clefts. From the disciplines of plastic surgery/craniofacial surgery, neurosurgery, otolaryngology, ophthalmology, and orthodontics, comprehensive reviews of nonsyndromic craniosynostosis, syndromic craniosynostosis, genetic advances in craniosynostosis, orthodontic perspectives in dental rehabilitation, ophthalmologic perspectives in craniosynostosis, minimally invasive techniques, rare craniofacial clefts, treatment of craniofacial microsomia with an emphasis on microtia and atresia, treatment of pediatric facial nerve paralysis, and Treacher Collins syndrome are detailed.

HB 9781536100914 £152.50 December 2016 Nova Science Publishers 190 pages 155x230mm

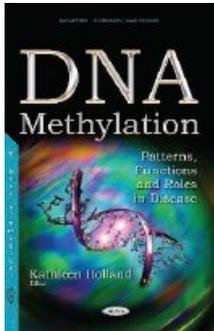


Current Trends in Cardiovascular Research (Cardiology Research & Clinical Developments Series)

Edited by Jan Fedacko, Krasimira Hristova, Germaine Cornelissen, Ram B Sin

Current Trends in Cardiovascular Research brings evidence to the medical community about the role of metabolic factors in the pathogenesis of cardiovascular function and dysfunction which results in different cardiovascular diseases.

HB 9781634856461 £219.50 September 2016 Nova Science Publishers 300 pages 180x260mm



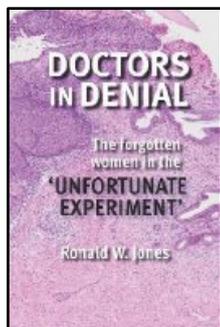
DNA Methylation

Patterns, Functions & Roles in Disease (Genetics -- Research & Issues Series)

Edited by Kathleen Holland

This book provides new research on the patterns, functions and roles in disease of DNA methylation. Chapter One studies the disruption of DNA methylation patterns caused by exposure to environmental factors during the developmental period. Chapter Two presents transcriptional regulation by cytosine modifications through a broad concept of molecular sciences in physics, chemistry and biology, and suggests a complex network for cytosine modifications-mediated transcription depending on multiple factors. Chapter Three reviews the loss of Insulin-like growth factor 2 (IGF2) imprinting in human tumors, focusing especially on the mechanisms underlying this abnormality in epigenetic control; and summarises recent progress on targeting this tumor specific imprinting abnormality as a novel anti-cancer approach.

HB 9781536102444 £152.50 December 2016 Nova Science Publishers 205 pages 155x230mm



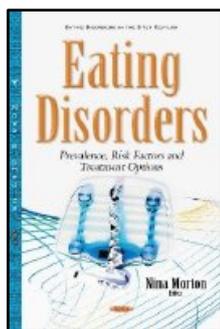
Doctors in Denial

The Forgotten Women in the 'Unfortunate Experiment'

Ronald W Jones

When Dr Ron Jones joined the staff of National Women's Hospital in Auckland in 1973 as a junior obstetrician and gynaecologist, Professor Herbert Green's study into the natural history of carcinoma in-situ of the cervix (CIS) -- later called 'the unfortunate experiment' -- had been in progress for seven years. By the mid-1960s there was almost universal agreement among gynaecologists and pathologists worldwide that CIS was a precursor of cancer, requiring complete removal. Green, however, believed otherwise, and embarked on a study of women with CIS, without their consent, that involved merely observing, rather than definitively treating them. Many women subsequently developed cancer and some died. In 1984 Jones and senior colleagues Dr Bill McIndoe and Dr Jock McLean published a scientific paper that exposed the truth, and the disastrous outcome of Green's experiment. In a public inquiry in 1987 Judge Sylvia Cartwright observed that an unethical experiment had been carried out in large numbers of women for over 20 years.

PB 9780947522438 £23.50 February 2017 Otago University Press 264 pages 150x230mm colour & b/w illus



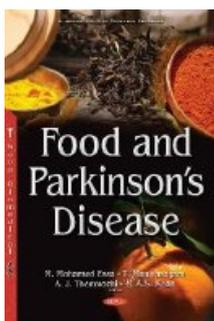
Eating Disorders

Prevalence, Risk Factors & Treatment Options (Eating Disorders in the 21st Century Series)

Edited by Nina Morton

Body image is a subjective multidimensional construction that has an early and continuous influence on one's emotions, thoughts, and behaviors. Throughout the lifespan, the body image suffers several influences and changes, as it is a complex and contextualized construct. Body image distortion may lead to the development of an eating disorder. Eating disorders are characterized by a persistent disturbance of eating or eating-related behavior that results in altered consumptions or absorptions of food and that can significantly impair physical health or psychological functioning. This book provides an in-depth review of the prevalence of eating disorders. It also discusses several risk factors, and available treatment options for those suffering from eating disorders.

HB 9781536100624 £219.50 December 2016 Nova Science Publishers 378 pages 180x260mm



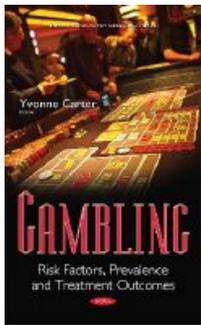
Food & Parkinson's Disease

(Neurology -- Laboratory & Clinical Research Developments Series)

Edited by M Mohamed Essa, T Manivasagam, A Justin Thenmozhi, Mohammed A S Khan

This book focuses on the alternative therapeutic approach for managing Parkinson's disease. This manuscript analyses the curative properties of natural ingredients and bioactive compounds — known as “nutraceuticals” — from natural foods, herbs, spices and plant extracts. Scientific revelations supported by conducted research concerning these remedies are presented. For example, consuming foods from natural sources that are rich in amino acids, antioxidants, vitamins and alkaloids may reduce the chances of onset of Parkinson's disease, and suggests that nutrition and diet have an impact on disease management. In addition, epigenetic modifications in conjunction with Parkinson's disease are also discussed in this book.

HB 9781634857369 £180.99 September 2016 Nova Science Publishers 230 pages 180x260mm

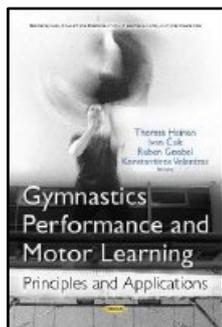


Gambling Risk Factors, Prevalence & Treatment Outcomes (Health Psychology Research Focus Series)

Edited by Yvonne Carter

Gambling is a public health problem characterized by persistent and recurrent maladaptive patterns of gambling. There is a social incentive to reduce current gambling problems and prevent future gambling addiction. In this book, Chapter One begins with an analysis of the risk factors, prevalence, pathophysiology and discusses treatment options for pathological gambling. Chapter Two provides a review on the idea that games should be taxed in accordance to the revenue they generate from addicts, and more effective multidimensional prevention measures should be implemented. Chapter Three focuses on a desire-targeted intervention based on Naikan counseling for disordered gamblers (DING).

PB 9781634857871 £90.50 September 2016 Nova Science Publishers 134 pages 155x230mm

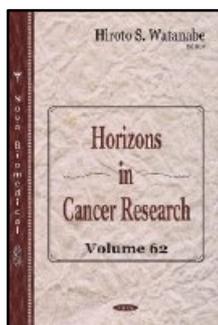


Gymnastics Performance & Motor Learning Principles & Applications (Sports & Athletics Preparation, Performance, & Psychology Series)

Edited by Thomas Heinen, Ivan Čuk, Ruben Goebel, Kostas Velentzas

This is a state-of-the-art discussion forum for topics that are of high interest in the field of gymnastics. Experts from different countries and with different scientific backgrounds such as psychology, pedagogy, training science, sports science, and movement science provide a number of significant contributions covering recent theoretical developments, current research evidence, as well as implications for practical applications concerning the different gymnastics disciplines. Topics discussed in the book include gymnasts gaze behavior in complex skills, spotting and guiding techniques, observational learning, augmented feedback, imagery, mental rotation, directional tendencies, interpersonal coordination, lost skill syndrome, performance indicators, as well as apparatus developments. Given the wide range of topics, *Gymnastics Performance and Motor Learning: Principles and Applications* may be an important source of information for graduate students, researchers, and practitioners (coaches and gymnasts) who work in the field of gymnastics.

HB 9781634857376 £180.99 September 2016 Nova Science Publishers 230 pages 155x230mm

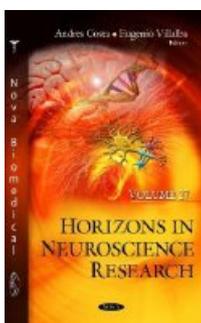


Horizons in Cancer Research Volume 62 (Horizons in Cancer Research Series)

Edited by Hiroto S Watanabe

This book presents original results on the leading edge of cancer research. CONTENTS: Preface; Epigenetic Regulation in Osteosarcoma; Osteosarcoma Cell Functions: Focus on Extracellular Matrix Signaling; The Long-Term Effects of Ultraviolet Radiation: Photocarcinogenesis; Skin Cancer & Sunscreen Use: Psychological Factors; Involvement of Treg Cells & TGFβ in HPV Infection & Cervical Cancer Development; American Cranberry (Vaccinium macrocarpon) Extract Affects Expression of Insulin-Like Growth Factor-I & Insulin-Like Growth Factor Binding Proteins in Human Prostate Cancer Cells in vitro; Design of Synthetic Peptides to Specifically Interfere the PBF/14-3-3b Binding to Restore PBF Apoptotic Functions; Study of Brain Development using Correlation between Diffusion Kurtosis & NODDI Metrics in Neonates & Young Children; After the Cure: Empowering Survivors through Resilience, Knowledge, Hopes & Dreams; Index.

HB 9781634854634 £238.50 September 2016 Nova Science Publishers 200 pages 155x230mm

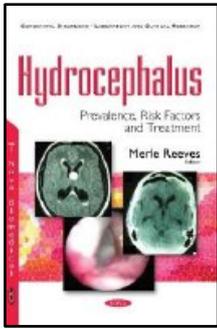


Horizons in Neuroscience Research Volume 27 (Horizons in Neuroscience Research Series)

Edited by Andres Costa, Eugenio Villalba

This book provides readers with the latest developments in neuroscience research. Chapter One discusses the development of neurochemical characteristics of sensory neurons. Chapter Two reviews current knowledge regarding Mavridis' area (MA) and its role as a modern stereotactic microanatomic guide for nucleus accumbens (NA) deep brain stimulation (DBS). Chapter Three describes the molecular mechanisms in response to exposure of the central nervous system (CNS) cells to the Ca²⁺ ionophores to increase the levels of intracellular free Ca²⁺ and consequently oxidative stress, and it also describes the roles of activation of the Ca²⁺-dependent proteases and intracellular pathways leading to induction of programmed cell death. Chapter Four reviews clinical features, epidemiology, genetics, physiopathology, management and advanced research on Frontotemporal Dementia and Frontotemporal Lobar Degeneration (FTLD). Chapter Five explores different terpenes and their role in signaling pathway modulating the progression of Alzheimer Disease. Chapter Six discusses the capability of and limitations in PET imaging research on non-human primates for translation to humans for brain aging research as well as therapeutic drug development for neurodegenerative diseases. Chapter Seven studies the imaging markers and prognostic significance of intracerebral hemorrhages (ICH). Chapter Eight reviews clinical practices and surgical intervention for ICH.

HB 9781536102062 £238.50 December 2016 Nova Science Publishers 200 pages 155x230mm

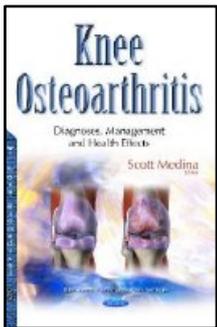


Hydrocephalus Prevalence, Risk Factors & Treatment (Congenital Disorders -- Laboratory & Clinical Research Series)

Edited by Merle Reeves

Hydrocephalus is an abnormal build-up of cerebrospinal fluid (CSF) in the brain. In normal circumstance, CSF is produced by the choroid plexus located in ventricles. CSF flows through the ventricular system to the cerebral and cerebellar subarachnoid spaces where it is reabsorbed into the blood circulatory system. Any obstruction of this pathway results in accumulation of CSF, which in turn compresses the surrounding brain tissue and causes the dilatation of CSF pathway spaces and the malfunction of central nerve system. Hydrocephalus may result from either impaired reabsorption or the production of CSF (communicating hydrocephalus) or blockage of CSF flow (non-communicating hydrocephalus). It can be caused by either congenital factors or acquired factors. Knowledge on the etiology and pathophysiology of hydrocephalus is important for the prevention and treatment of this disease. In this book, the prevalence of hydrocephalus is discussed, as well as risk factors and treatment options available.

PB 9781634855600 £90.50 December 2016 Nova Science Publishers 140 pages 155x230mm

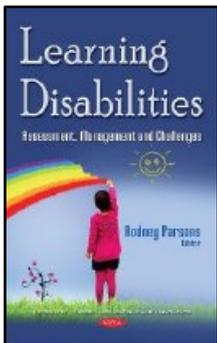


Knee Osteoarthritis Diagnoses, Management & Health Effects (Orthopedic Research & Therapy Series)

Edited by Scott Medina

Osteoarthritis, the most common joint disease, causes appreciable disability in a high percentage of older adults. Commonly attributed to progressive disruption of the articular cartilage and underlying bone structures constituting the joint, the condition can be extremely debilitating due to its widespread aversive consequences. Knee osteoarthritis (OA) is the most frequent localization of the arthrosis disease and the most common arthropathy of the knee, affecting over 37% of the population aged over 60 years and representing the main cause of pain and disability. In this book, Chapter One describes the most common less well documented psychological complications that can prevail in knee osteoarthritis, their implications, and possible solutions for reducing the extent and severity of this disabling condition. Chapter Two reviews biological pathways in knee osteoarthritis. Chapter Three discusses ozone therapy for management of OA.

PB 9781634856096 £90.50 September 2016 Nova Science Publishers 100 pages 155x230mm

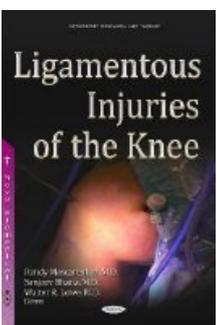


Learning Disabilities Assessment, Management & Challenges (Psychiatry -- Theory, Applications & Treatments Series)

Edited by Rodney Parsons

This book contains assessments, management options and challenges for individuals with learning disabilities. CONTENTS: Preface; The Nosological Status of Developmental Dyscalculia; Metacognition & Learning Disabilities in Higher Education; Hearing Loss & Intellectual Disabilities; "I Will Make a Difference"; Using the 5As Model to Improve Issues for Adults with Learning Disabilities & Hearing Loss; Instructional Methods for Teaching Sub-Types of Students with Reading Disabilities Chinese Words; Impact of Challenging Behaviour on Families & Avenues for Support; Integrating Students with Disabilities in the Academia -- A Rewarding Challenge; How do Academic Institutions Integrate Students with High-Functioning Autism? (Report); Index.

HB 9781634858403 £180.99 December 2016 Nova Science Publishers 188 pages 155x230mm

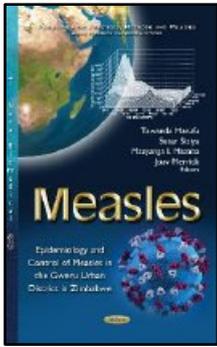


Ligamentous Injuries of the Knee (Orthopedic Research & Therapy Series)

Edited by Randy Mascarenhas, Sanjeev Bhatia, Walter R Lowe

Cruciate and collateral ligament injuries of the knee are a common occurrence in athletics, and high velocity trauma and treatment can range from non-operative to complex surgical reconstruction. It is imperative that medical professionals who are involved in the treatment of these patients remain up-to-date on the most current concepts in treatment, as management algorithms and surgical techniques have evolved significantly over time as arthroscopic tools, biological treatments, and understanding of these complex injuries have improved. This book serves as a guide to the evaluation and management of knee ligament injuries, ranging from non-operative treatment of isolated MCL injuries to complex multi-ligament reconstruction. Experts in knee surgery cover everything with the latest surgical techniques from patient positioning to postoperative care. In addition to discussing the management of cruciate and collateral ligament injuries, the book explores other emerging complementary topics from authorities with world-renowned expertise. These include the management of pediatric knee injuries, ACL repair, revision ligament surgery, the role osteotomy for chronic ligament deficient knees, the use of orthobiologics in knee ligament reconstruction and rehabilitation following knee ligament injuries and surgery. Ligamentous Injuries of the Knee aims to serve a broad audience, ranging from practicing orthopaedic sports medicine surgeons and allied health professionals to medical/allied health students who wish to gain exposure to the latest treatment algorithms and advanced surgical procedures.

HB 9781634856072 £257.50 September 2016 Nova Science Publishers 450 pages 180x260mm



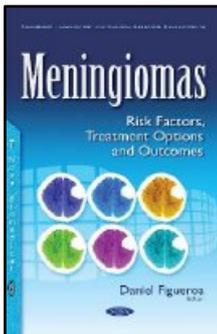
Measles

Epidemiology & Control of Measles in the Gweru Urban District in Zimbabwe (Public Health: Practices, Methods & Policies Series)

Edited by Tawanda Marufu, Seter Siziya, Mazyanga L Mazaba-Liwewe, Joav Merrick

Measles is a disease of public health importance that is associated with high mortality and morbidity, particularly in developing countries. In recent years, widespread application of the measles vaccine among children has led to a decline in the morbidity and mortality attributed to measles. In the city of Gweru in Zimbabwe, research was carried on the epidemiology and control of measles. Due to these studies, a seven year multiple dose measles vaccination intervention was carried out in Gweru from 1990-1996. The results of this intervention played a significant role in the debate that led to the adoption of the WHO/UNICEF current policy to use multiple dose measles vaccination strategies to control measles in developing countries. One of the critical lessons that has arisen from the Gweru city measles operational research effort has been that fairly low cost, simple research makes a great difference in providing insight into the epidemiology and control of endemic disease conditions locally.

PB 9781634855594 £90.50 September 2016 Nova Science Publishers 95 pages 155x230mm



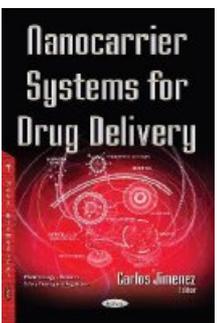
Meningiomas

Risk Factors, Treatment Options & Outcomes (Neurology -- Laboratory & Clinical Research Developments Series)

Edited by Daniel Figueroa

Meningiomas are highly vascularized, extra-axial central nervous system (CNS) tumors that derive blood supply from both extracranial and intracranial circulations. This book reviews risk factors, treatment options and outcomes of meningiomas. Chapter One reviews and discusses recent risk factors of meningioma development. Chapter Two provides an updated analysis of the current practice of meningioma embolization in the 21st century, as it pertains to practicing clinicians. Chapter Three reviews the current evidence for use of laser interstitial thermal therapy (LITT) in the management of cranial meningiomas, discusses technical issues, and explains the indications for use of LITT in the treatment of meningioma. The remaining chapters discuss how to select elderly patients for meningioma surgery, different treatment options, and clinical factors contributing to optimal surgical outcome for the elderly.

PB 9781536101379 £90.50 December 2016 Nova Science Publishers 150 pages 155x230mm



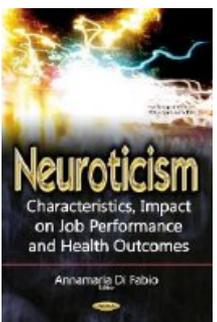
Nanocarrier Systems for Drug Delivery

(Pharmacology -- Research, Safety Testing & Regulation Series)

Edited by Carlos Jimenez

Currently, used anticancer drugs are found to be poorly water soluble and highly potent in nature. They act non-selectively on both tumour as well as normal cells. This non-selectivity is being tried to overcome by means of selective or targeted tumor drug delivery with improvised safety and efficacy. This book discusses nanocarrier systems for drug delivery.

PB 9781536100983 £90.50 December 2016 Nova Science Publishers 115 pages 155x230mm



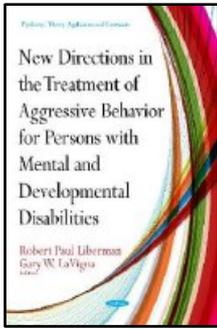
Neuroticism

Characteristics, Impact on Job Performance & Health Outcomes (Psychiatry -- Theory, Applications & Treatments Series)

Edited by Annamaria Di Fabio

This book offers a review of current theoretical and research perspectives regarding neuroticism and its impact on job performance and health outcomes. The aim is continuing to stimulate the reflection on neuroticism at both theoretical and intervention levels. The volume presents researches and perspectives about neuroticism with a focus on organisational contexts, addressed to widen the horizon regarding neuroticism and its associations in job performance and health outcomes. Concerning the research in organisational contexts, neuroticism is considered in relation to job satisfaction, workaholism, organisational and emotional intelligence, health risks, prevention in organisations, and promotion of workers' strengths in the first part of the volume. In the second part, they are reflections relative to: physiological correlates of neuroticism, relations between neuroticism and extraversion in different contexts, associations of neuroticism with innovative and adaptive outcomes (for example, flourishing and Intrapreneurial Self-Capital, and career outcomes), and concluding with the importance of continuing to study neuroticism in a cross cultural perspective. The hope is that this book can really help to enhance the study of neuroticism, its characteristics, and the impact it possesses on job performance and health outcomes. The volume constitutes an aid to the valorisation and protection of human resources. Its goal is giving a real contribution to favor both the performance and well-being of workers, promoting organisational productivity, business success, well-being and healthy environments in organisations.

HB 9781634853231 £104.99 September 2016 Nova Science Publishers 215 pages 155x230mm

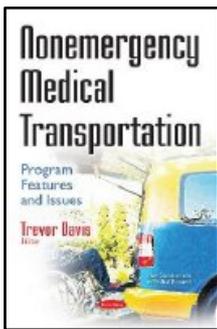


New Directions for Treatment of Aggressive Behavior in Persons with Mental & Developmental Disabilities (Psychiatry -- Theory, Applications & Treatments Series)

Edited by Robert Paul Liberman, Gary W LaVigna

This book was written because of the paucity of practical, evidence-based and person-centered information regarding the treatment and management of aggressive behavior exhibited by persons with these disabilities. This book will acquaint readers about the: scope of aggression among the mentally and developmentally disabled persons; basic principles for designing and validating novel treatments for aggressive behavior; comprehensive functional assessment of aggression that permits individualised design of treatment interventions with a high likelihood of success in reducing or eliminating aggression toward others or self; positive behavior supports for a wide range of developmentally disabled persons, including those with traumatic brain injuries; currently validated, evidence-based medications for the control of aggression and how to use medications so they are monitored for effectiveness; cognitive-behavior therapy for aggression among the mentally ill; national and international dissemination and adoption of the treatment techniques described in this book. The major reason for writing this book was to bring these new directions in the effective treatment of aggressive behavior into the mainstream of services for persons with mental and developmental disabilities. The Editors engaged in enormous efforts of dissemination — far beyond publications and presentations to professional colleagues at conferences, conventions and institutes. Our extensive dissemination efforts - where they given workshops and training institutes - have taken place in China, Japan, India, Turkey, Israel, Algeria, Spain, France, Italy, Bulgaria, Poland, Czech Republic and Slovakia, Austria, Germany, Sweden, Norway, Denmark, U.K., Ireland, Australia, New Zealand and South Africa. For example, our colleagues in China recently informed us that over 50,000 Chinese persons with schizophrenia have participated in our published modules for training social and independent living skills. Our previous books have been translated in numerous languages, and at last count are in active use in 23 countries. Their goal in writing this book was to encourage various service agencies, treatment facilities and clinical teams to use positive techniques in managing aggressive behavior and teach appropriate communication and self-management skills.

HB 9781634838573 £214.50 December 2016 Nova Science Publishers 850 pages 180x260mm

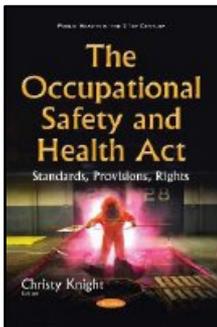


Nonemergency Medical Transportation Program Features & Issues (New Developments in Medical Research Series)

Edited by Trevor Davis

Medicare and Medicaid provide nonemergency medical transportation (NEMT) services to eligible beneficiaries who need transportation to scheduled nonemergency care. The Centers for Medicare & Medicaid Services (CMS) administers Medicare NEMT benefits and is responsible for overseeing Medicaid at the federal level. Spending on NEMT under these programs was \$2.7 billion in 2013-\$1.2 billion for Medicare and \$1.5 billion for Medicaid. Increased demand for NEMT because of increased Medicaid enrollment has led states to seek ways to more efficiently operate NEMT. This book examines key features of NEMT services under Medicare and Medicaid and how these services are delivered; steps CMS has taken to oversee NEMT under Medicare as well as Medicaid; and the challenges that exist in providing NEMT under Medicaid and steps that selected state Medicaid agencies have taken to address those challenges.

PB 9781536101188 £59.50 December 2016 Nova Science Publishers 80 pages 155x230mm

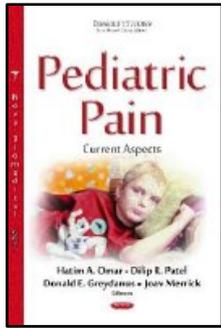


Occupational Safety & Health Act Standards, Provisions, Rights (Public Health in the 21st Century Series)

Edited by Christy Knight

Through the Occupational Safety and Health Act of 1970 (“OSH Act” or “act”), Congress sought a nationwide approach to regulating workplace accidents and injuries. The act authorizes the Secretary of Labor to create and enforce workplace safety standards. Additionally, the act contains a “General Duty Clause,” also enforced by the Secretary of Labor, which generally requires employers to provide workplaces that are free of potentially harmful hazards. The act created the Occupational Safety and Health Administration (“OSHA”) and an Assistant Secretary of Labor for Occupational Safety and Health, to whom the Secretary of Labor has delegated his enforcement rights and obligations under the act. The act also established the Occupational Safety and Health Review Commission (“OSHRC”), an adjudicatory agency independent of the Department of Labor, and therefore OSHA, that is tasked with reviewing enforcement actions. OSHA enforces its standards and the General Duty Clause through inspections, citations, and penalties. Employers can seek review of OSHA enforcement actions first with OSHRC and then with U.S. Courts of Appeals. This book discusses, in depth, the standards, provisions and rights of the Occupational Safety and Health Act.

PB 9781634826372 £90.50 September 2016 Nova Science Publishers 121 pages 155x230mm

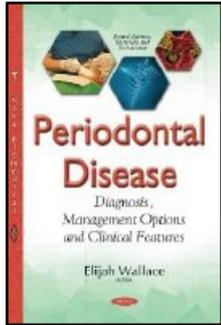


Pediatric Pain Current Aspects (Disability Studies Series)

Edited by Hatim A Omar, Dilip R Patel, Donald E Greydanus, Joav Merrick

Pain in a newborn, child, or adolescent is a complex phenomenon that can be acute or chronic, mild or severe, and invoke complex reactions in the patient, family, and clinician. Pain is a feeling that humans find very unpleasant, seek to ameliorate and even stop as soon as possible. Individuals come to their clinicians seeking the cause of their pain and request ways to deal with their discomfort. Clinicians have not always been well-trained to appreciate or prevent pain in their patients, and this seems especially true for young pediatric patients. The underlying theme in this publication is to consider causes and management of pediatric pain. The authors look at different perspectives of pain including fibromyalgia, peripheral neuropathies, sports-related pain, pelvic pain, recurrent headaches, recurrent abdominal pain, dermatologic pain, oncologic pain, and psychosomatic pain.

HB 9781634855051 £152.50 September 2016 Nova Science Publishers 160 pages 155x230mm

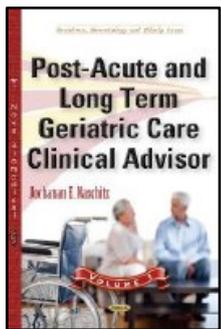


Periodontal Disease Diagnosis, Management Options & Clinical Features (Dental Science, Materials & Technology Series)

Edited by Elijah Wallace

Periodontal disease (PD), an inflammatory disease of tooth supporting tissues that leads to progressive loss of periodontal ligament and bone, with pocket formation and / or recession of the gums, is widespread among the world adult population and a serious public health issue. CONTENTS: Preface; Probiotics & Periodontal Disease; The Ligature-induced Periodontitis Model: Literature Overview & Description of the Technique; Modifiable Systemic Factors for Periodontal Disease Prevention & Management; Current Concepts about Periodontal Disease & Relationship with Systemic Diseases; Related Nova Publications; Index.

PB 9781634857505 £78.50 September 2016 Nova Science Publishers 96 pages 155x230mm

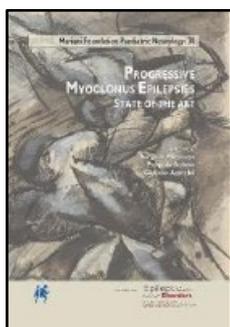


Post-Acute & Long Term Geriatric Care Clinical Advisor Volume I (Geriatrics, Gerontology & Elderly Issues Series)

Jochanan E Naschitz

Changing demographics have resulted in the elderly constituting a more significant proportion of the population. Many older people will develop functional impairment and disability, necessitating either support at home or admission to long-term care facilities, rehabilitation centers, psychiatric institutions and hospices. Guidance in the clinical challenges that face the staff of such institutions is essential. Clinical practice guidelines dealing with many of the prevalent conditions in long-term care facilities have been published by the American Medical Directors Association; these aim to educate staff, improve patient outcomes, decrease avoidable transfers and reduce costs. Yet, guidelines do not cater methodically to problems resulting from the complex situations seen in older patients with multiple comorbidities. Textbooks are also often deficient in providing a focused approach to conditions and issues that are of importance in geriatric long-term care. This volume focuses on case management in geriatric long-term care. Concise recommendations are provided, addressing diagnostic issues and management strategies. We have adopted an approach of dividing recommendations into "do" and "do not" categories in order to guide physicians and nurses in their approach to conditions encountered frequently, to help them recognise "red flag" signals, and to highlight significant unusual situations.

HB 9781634850759 £257.50 May 2016 Nova Science Publishers 470 pages 180x260mm

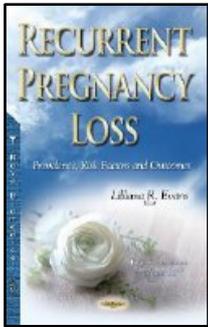


Progressive Myoclonus Epilepsies State-of-the-Art (Mariani Foundation Paediatric Neurology Series: 30)

Edited by Berge A Minassian, Pasquale Striano, Giuliano Avanzini

Progressive myoclonus epilepsies are a group of rare genetic diseases. The onset generally occurs around puberty in otherwise healthy children. They all involve myoclonus and epilepsy but then differ depending on the different symptoms that are related. The outlook of these diseases is nearly always unfavourable and treatment only focuses on symptoms. Much planning will be needed to improve the quality of life for these children who will gradually become over time more and more severely disabled. Among these diseases, the most notable is Unverricht-Lundborg disease and Lafora disease, among others. However, the genetic mechanism of these diseases is simple and has been perfectly identified over time thanks to advancements in scientific discoveries. Hope lies in gene therapy, which in the near future will most likely be able to optimise treatment and even cure these children. This book addresses the situation by relying on clinicians' descriptions, studies led by biologists on genetic variations and mutations and the work carried out daily by scientists researching into treatment.

HB 9782742014880 £67.50 February 2017 John Libbey Eurotext 204 pages 180x250mm b/w illus



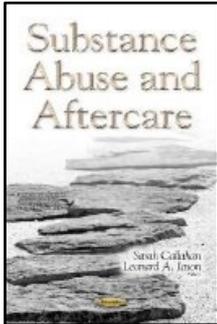
Recurrent Pregnancy Loss

Prevalence, Risk Factors & Outcomes (Pregnancy & Infants: Medical, Psychological & Social Issues Series)

Edited by Lilliana R Evans

This book provides up-to-date research on the prevalence, risk factors and outcomes of recurrent pregnancy loss. Chapter One discusses immunopathogenetic aspects of recurrent miscarriages with infectious genesis. Chapter Two examines abnormal endometrial decidualisation in endocrine disorders associated with early recurrent pregnancy loss. Chapter Three focuses on the significance of the determination of antibodies to different phospholipids and some genetic factors for thrombophilia in patients with systemic lupus erythematosus. Chapter Four explains immunorehabilitation in miscarriages of pregnancies.

PB 9781634857475 £90.50 September 2016 Nova Science Publishers 112 pages 155x230mm



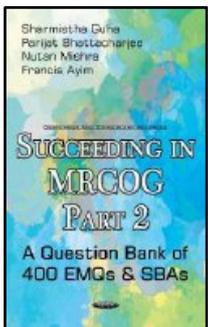
Substance Abuse & Aftercare

(Substance Abuse Assessment, Interventions & Treatment Series)

Edited by Leonard A Jason, Sarah Callahan

Drug and alcohol addiction are critical social problems in the United States. Drug and alcohol abuse are powerful facilitators of health and economic disparities, making recovery and re-entry into the community difficult. Alcohol and drug abuse/addiction are among the costliest of health problems, totaling approximately \$428 billion annually. A range of services have been developed to address the problem of substance dependence, including inpatient services, outpatient services, and recovery housing. However, only about 11% of those with substance addictions reach any type of substance abuse treatment, and those that are treated evidence high rates of relapse. Thus, it is critical to understand the mechanisms by which individuals are successful, and sustain abstinence after receiving treatment and aftercare. This book provides a collection of research that explores alternative models, aftercare programs, employment services, trauma issues that affect recovery, gender-specific, and culturally modified treatment and aftercare programs. Each chapter is an individual study that addresses key unanswered questions in substance abuse and recovery research. Furthermore, the editors and authors identify potentially important, understudied topics for further research and formulate public policy recommendations. This is a must read for addiction researchers, academics, students, and individuals interested in learning about the dangers of substance abuse.

PB 9781634855013 £78.50 September 2016 Nova Science Publishers 90 pages 155x230mm



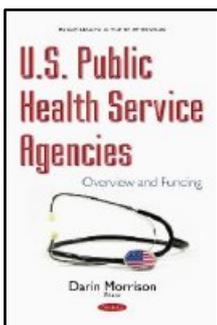
Succeeding in MRCOG

Part 2 -- A Question Bank of 400 EMQs & SBAs (Obstetrics & Gynecology Advances Series)

Sharmistha Guha, Parijat Bhattacharjee, Nutan Mishra, Francis Ayim

The book is targeted at the candidates appearing for the MRCOG Part 2, which is a compulsory examination for postgraduate trainees in the UK who aspire to pursue a career in obstetrics and gynaecology. Apart from the UK postgraduates, MRCOG examination is taken by postgraduates all across the globe to obtain this prestigious degree. The examination is carried out twice a year, and the venues are London, Manchester, Glasgow and Belfast in the UK. The examination also takes place in Bangladesh, Egypt, Hong Kong, India (2 centres), Iraq, Jordan, Malaysia, Pakistan, Saudi Arabia, Sudan, Dubai and Jamaica. At each centre, the number of candidates participating varies between 5 and 200. Apart from the candidates appearing for this examination, this book would be helpful for the assessment of knowledge in all postgraduate trainees in obstetrics and gynaecology worldwide. Therefore, this book has a wide target group. A unique characteristic of this book is that it produces a comprehensive set of both types of questions covering all the modules of the MRCOG Part 2 syllabus (www.rcog.org.uk). A broad range of reading material has been used to develop the EMQs and SBAs including RCOG Greentop Guidelines, Scientific Impact Papers, Clinical Governance Papers and RCOG Consent Advice. In addition to the RCOG revision material, the authors have included questions from The Obstetrician & Gynaecologist (TOG), NICE Guidelines, StratOG and recommended textbooks.

PB 9781634854078 £90.50 September 2016 Nova Science Publishers 130 pages 155x230mm



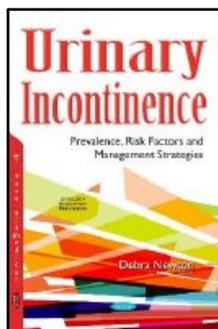
U.S. Public Health Service Agencies

Overview & Funding (Public Health in the 21st Century Series)

Edited by Darin Morrison

Within the Department of Health and Human Services (HHS), eight agencies are designated components of the U.S. Public Health Service (PHS). The PHS agencies are funded primarily with annual discretionary appropriations. They also receive significant amounts of funding from other sources including mandatory funds from the Affordable Care Act (ACA), user fees, and third-party reimbursements (collections). This book discusses funding, and provides an overview of the PHS agencies.

PB 9781634859950 £59.50 December 2016 Nova Science Publishers 77 pages 155x230mm

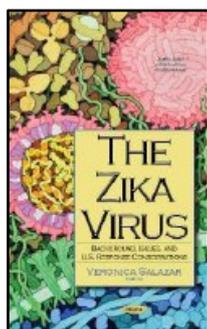


Urinary Incontinence Prevalence, Risk Factors & Management Strategies (Urology Research Progress Series)

Edited by Debra Newton

Urinary incontinence (UI) is defined as the complaint of involuntary loss of urine. Urinary incontinence can be divided into several different types, including stress urinary incontinence (SUI), which is defined as the complaint of involuntary loss of urine on effort, physical exertion, sneezing or coughing. Mixed urinary incontinence (MUI) is defined as the complaint of involuntary leakage associated with urgency and effort, exertion, sneezing and coughing. Urge urinary incontinence (UUI) is defined as the complaint of involuntary leakage accompanied by or immediately preceded by urgency; overflow incontinence, and functional incontinence. This book reviews UI's prevalence, risk factors and the management strategies currently available.

PB 9781536100990 £90.50 December 2016 Nova Science Publishers 120 pages 155x230mm



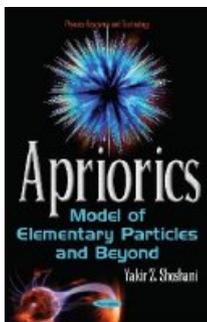
Zika Virus Background, Issues, & U.S. Response Considerations (Virology Research Progress Series)

Edited by Veronica Salazar

In late 2015, health officials in Brazil recognized a marked increase in the number of infants born with microcephaly (from Greek, meaning "small head"), a birth defect that may accompany significant, permanent brain damage. Although not conclusive, the increase in microcephaly is suspected to be related to the emergence of Zika virus infections in Brazil early in 2015. Zika virus is related to the viruses that cause yellow fever, dengue, West Nile, and Japanese encephalitis viruses. Historically, Zika virus was found in Africa. Since 2007, Zika transmission has also occurred in Southeast Asia and the Western Pacific. In the Americas, transmission was first identified in Brazil in May 2015. As of 29 January 2016, the Pan American Health Organization (PAHO) had received reports of local transmission in 25 countries and territories in the Americas, including Puerto Rico and the U.S. Virgin Islands. This book discusses scientific and technical aspects of Zika virus infection, including modes of transmission, symptoms, diagnosis and treatment, and prevention. Policy concerns and official actions are evolving and will also be discussed.

HB 9781536101249 £142.99 December 2016 Nova Science Publishers 180 pages 155x230mm

PHYSICS

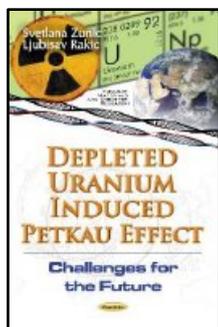


Apriorics Model of Elementary Particles & Beyond (Physics Research & Technology Series)

Yakir Z Shoshani

This book suggests a new model of elementary particle physics based on a priori ontology known as apriorics. Although this theory does not use any free parameters and includes only five basic principles, it has a significant predictive power and its findings substantiate the Standard Model of elementary particle physics. This book is mainly designed for researchers, including graduate students interested in the philosophical aspects of physics. However, owing to the simplified presentation of the concepts, ideas and framework of the suggested theory, it may also expand the horizons of undergraduate students in physics, mathematics and philosophy, and teachers of these fields as well in high schools and colleges.

HB 9781634848138 £90.50 December 2016 Nova Science Publishers 100 pages 155x230mm

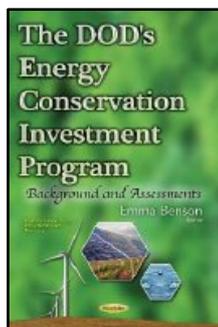


Depleted Uranium Induced Petkau Effect Challenges for the Future (Nuclear Materials & Disaster Research Series)

Svetlana Zunic, Ljubisa Rakic

The primary objective of this study is to contribute to a better understanding of the interaction of depleted uranium as a source of low dose radiation with the living world and humans in a contaminated environment. As inhaled air is the main source of internal contamination, further research on this topic is valuable, especially in terms of overcoming inter-individual variability. The authors propose a simple model based on apoptotic parameters and artificial network method for individualised estimation of tissue response to low-dose tobacco exposure. Non-targeted effects of radiation are time-evolving and can lead to delayed health effects, including cancerogenesis. The authors discuss the importance of an individual approach to the diagnosis and selection of appropriate therapy, based not only on the results of the expression analysis, but also on metabolic and apoptotic tissue properties. Humanity is the main subject of the authors' study. Understanding the basic principles of cell biology and radiation interaction with living matter is supported by authentic medical data obtained from patients originating from the territories which were geographically close to each other (Serbia and Montenegro seaside, as well as Bosnia and Herzegovina, the territories of the former Yugoslavia).

PB 9781634840460 £78.50 September 2016 Nova Science Publishers 130 pages 155x230mm

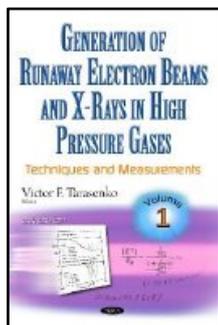


DOD's Energy Conservation Investment Program Background & Assessments (Energy Policies, Politics & Prices Series)

Edited by Emma Benson

The Department of Defense (DOD) collects information on how Energy Conservation Investment Program (ECIP) projects are expected to perform when operational, including anticipated returns on investment and energy or water savings. DOD established ECIP, which funds projects at military installations that are designed to conserve energy or water, generate electricity from renewable sources, promote energy security, or accomplish a combination of these goals. This book assesses the extent to which DOD has reported anticipated returns on investment or reduced energy use from ECIP-funded projects; found that completed ECIP projects have resulted in cost savings or lower energy use; and developed and implemented a strategic vision for ECIP.

PB 9781634858731 £59.50 December 2016 Nova Science Publishers 62 pages 155x230mm

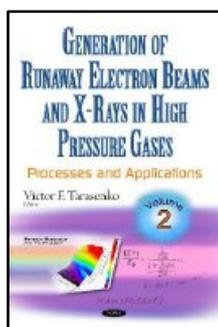


Generation of Runaway Electron Beams & X-Rays in High Pressure Gases Volume 1: Techniques & Measurements (Physics Research & Technology Series)

Edited by Victor F. Tarasenko

This collective book provides a review of research concentrated on runaway electron beams and X-rays in an inhomogeneous electric field with different gases at increased pressure. Attention is also given to supershort avalanche electron beam (SAEB) in the optimal conditions. New experimental techniques and equipment, including those with picosecond time resolutions, were required for diagnostics of electrical and optical signals. The book consists of twenty-four chapters, some of which were written jointly by researchers of different teams. Some chapters consider the range of SAEB applications.

HB 9781634858304 £219.50 December 2016 Nova Science Publishers 382 pages 180x260mm

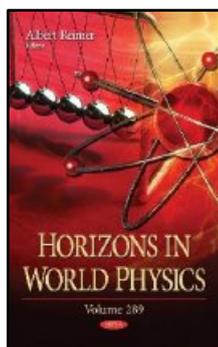


Generation of Runaway Electron Beams & X-Rays in High Pressure Gases Volume 2: Processes & Applications (Physics Research & Technology Series)

Edited by Victor F. Tarasenko

This collective book provides a review of research concentrated on runaway electron beams and X-rays in an inhomogeneous electric field with different gases at increased pressure. Attention is also given to supershort avalanche electron beam (SAEB) in the optimal conditions. New experimental techniques and equipment, including those with picosecond time resolutions, were required for diagnostics of electrical and optical signals. The book consists of twenty-four chapters, some of which were written jointly by researchers of different teams. Some chapters consider the range of SAEB applications.

HB 9781634858342 £219.50 December 2016 Nova Science Publishers 300 pages 180x260mm

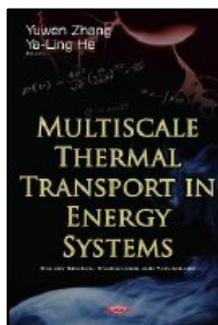


Horizons in World Physics Volume 289 (Horizons in World Physics Series)

Edited by Albert Reimer

This book presents the latest developments in world physics, including chapters on the regularisation and numerical solution of direct and inverse waveguide problems; the predictability and unpredictability from the perspective of the interpretations of quantum mechanics; the external gamma radiation dose in Mexico; the quantum formulation of the electromagnetic field and London's theory; the wide-aperture CO₂ lasers pumped by electron-beam-controlled discharge; periodic surface structure induced on dental enamel by CO₂ laser 10.6 μm radiation; and the influence of the supernova explosion in M1 on the long-range order in water of agarose hydrogel, on domains in proteins and on the human bio field.

HB 9781536101836 £152.50 December 2016 Nova Science Publishers 160 pages 155x230mm

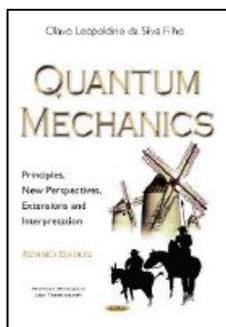


Multiscale Thermal Transport in Energy Systems (Energy Science, Engineering & Technology Series)

Edited by Yuwen Zhang, Ya-Ling He

During energy utilisation and conversion, thermal energy is either an intermediate product or a byproduct; that is, thermal transport plays a critical role on efficiency, reliability, and safety of the energy systems. Recent development in nanotechnologies enabled significant improvement of the thermal energy storage performance, fuel cell, battery and thermoelectric devices. To meet the ever increasing challenges posed by energy systems, innovative and transformative measures must be taken to significantly improve the performance of these devices. Such measures will not be possible without a thorough understanding of thermal transport at molecular, nano- and microscale levels because physical phenomena occurring at the molecular, nano- and microscale will have profound effects on the performance at the system level. Understanding of multiscale thermal transport in the energy system is essential to improve their performance.

HB 9781634856928 £219.50 September 2016 Nova Science Publishers 322 pages 180x260mm



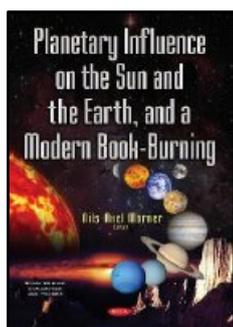
Quantum Mechanics Principles, New Perspectives, Extensions & Interpretation (Physics Research & Technology Series)

Olavo Leopoldino da Silva Filho

The book *Quantum Mechanics: Principles, New Perspectives, Extensions and Interpretation – Revised Edition* deals with the foundations of Quantum Mechanics in a quite novel way. From his own published works throughout these last 20 years in prominent Journals, Prof. L.S.F. Olavo reconstructs Quantum Mechanics (as related to the Schrödinger equation) from the scratch, both in mathematical and interpretive ways. The picture that emerges is quite different from the one we get from other approaches. While the mainstream approach reinforces some unavoidable weirdness in the Quantum World, Prof. Olavo's interpretation presents Quantum Mechanics as quite an intuitive theory, using only the pedestrian notions of randomness, fluctuations and the companion notion of statistics. However, it is much more than another stochastic approach. The book is intended to all those interested in the foundations of Quantum Mechanics.

PB 9781634855709 £84.99 September 2016 Nova Science Publishers 100 pages 155x230mm

SPACE SCIENCE



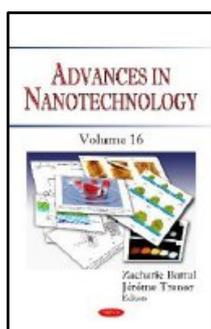
Planetary Influence on the Sun & the Earth & a Modern Book-Burning (Space Science, Exploration & Policies Series)

Edited by Nils-Axel Morner

This book is primarily concerned with fundamental components of solar physics, terrestrial geophysics and general climate issues. Phenomena such as planetary influence on solar variability, the Sun's irradiance and solar wind continue to fascinate members of the scientific community. What is more astounding is the way in which our planet reacts to these occurrences; climate changes, sea levels, tides, ocean circulation and geomagnetism, all caused by the processes mentioned above. The pages that follow analyze and calculate the relationships between solar causation and terrestrial reaction. This work begins with a foreword from Walter Cunningham, the famous Apollo 7 astronaut who in 1968 took part in the first manned space flight. Section A is devoted to the concept of planetary-solar-terrestrial interaction and driving forces that represent a break-through in science. The book begins with a high-lightening of records indicating a planetary influence on solar activity and continues with multiple discussions of terrestrial variables. It concludes with an account of the physics behind the changes in the Sun and in the Earth. Section B presents the remarkable decision to terminate the journal of pattern recognition in physics because the authors concluded that we are now on our way into a new grand solar minimum. This inspires doubt in an accelerating global warming. In the name of science and ethics, five papers respond to this "modern book-burning". Section C is devoted to general conclusions, co-authored by 19 eminent scientists in the field of solar physics, geophysics, geology, hydrology and climatology. It also includes a short note on concluding editorial views.

PB 9781634857796 £84.99 September 2016 Nova Science Publishers 177 pages 180x260mm

TECHNOLOGY

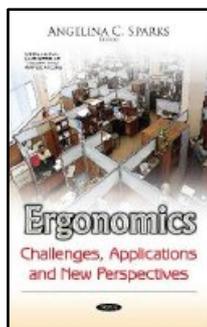


Advances in Nanotechnology Volume 16 (Advances in Nanotechnology Series)

Edited by Zacharie Bartul, Jérôme Trenor

Nanotechnology is the study of the controlling of matter on an atomic and molecular scale and is also very diverse, ranging from extensions of conventional device physics to completely new approaches based upon molecular self-assembly. This book gathers and presents data on nanotechnology. Chapter One reviews the use of high energy ball milling as a new tool to help in the preparation of polymer nanocomposites. Chapter Two presents a systematic summary of the significant advances in organic photodetectors based on small-molecule semiconductor materials, in particular for their 1D architectures in the field of photoconductors and phototransistors over the past few years. Chapter Three examines the most promising nanomaterials for the development of electrochemically or optical sensors for the ROS/RNS electrochemical or optical sensing. Chapter Four reviews the approaches and processes used for fabricating graphene nanoribbons (GNRs) from carbon nanotubes (CNTs), which include chemical-scissor unzipping methods and non-chemical based unzipping methods, as well as the solid-state method for the transformation of CNTs into the 2D structure of GNRs with high structural quality. Chapter Five focuses on a detailed description about the current progress in the development of pH-responsive chitosan-based nanoparticles for biomedical applications. Chapter Six discusses potential applications of chitosan nanoparticles (CNPs) in skin care products and dermatological preparations. Chapter Seven addresses a review on the current state of the art of the treatment and disposal of the OME from both the two-phase and three-phase systems by nanofiltration polymeric; and discusses a case study concerning an integral flocculation pretreatment-NF membrane process.

HB 9781634859615 £180.99 December 2016 Nova Science Publishers 170 pages 155x230mm

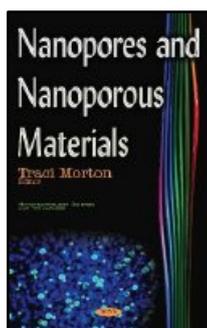


Ergonomics Challenges, Applications & New Perspectives (Mechanical Engineering Theory & Applications Series)

Edited by Angelina C Sparks

Ergonomics and the design of ergonomic workplaces are reaching the attention of many industries and companies. This book discusses the challenges, applications and provides new perspectives on ergonomics. Chapter One provides a framework for positioning design methods and tools in prospective ergonomics. Chapter Two highlights the advantages of the use of analog visual displays that are designed based on the application of ergonomics standards and recommendations, in relation to the design solutions of this type of displays which are not designed according to the ergonomics standards and recommendations (and which are currently used in practice). Chapter Three presents a brief review on recent innovative engineering controls for the ergonomics of manual workers in several industries. Chapter Four focuses on the critical role of cognitive ergonomics in assisting users of complex systems to make effective and efficient decisions through the use of automation. Chapter Five discusses a new perspective and case study that focuses on the unified experience design of a suite of software applications in the enterprise supply chain domain.

PB 9781536102482 £78.50 December 2016 Nova Science Publishers 135 pages 155x230mm

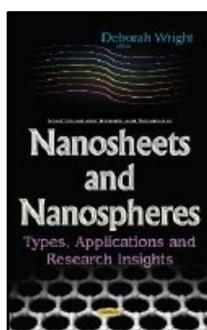


Nanopores & Nanoporous Materials (Nanotechnology Science & Technology Series)

Edited by Traci Morton

Over the past decade, the research community has been paying particular attention to organic, inorganic and hybrid porous materials, mainly due to the plethora of promising applications offered by such architectures in areas as diverse as (nano)filtration and separation techniques, heterogeneous supported catalysis, template-assisted synthesis of nanomaterials, materials for phonic and thermic isolation as well as patterned nanomaterials for microelectronics and photovoltaics, as previously reported by numerous reviews in the field. This book provides current research on nanopores and nanoporous materials. CONTENTS: Preface; Design of Functional Nanoporous Polymeric Materials from Self-Organized Block Copolymers; Nanoporous Montmorillonite Clay: Sustainable Catalyst & Catalysts Support; Soft Nanoporous Materials from Peptides, Polyamides & Polyimides; Nano-Drilling Processing with TEM; Index.

PB 9781634854153 £90.50 September 2016 Nova Science Publishers 98 pages 155x230mm

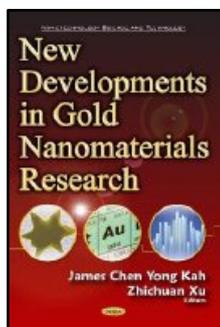


Nanosheets & Nanospheres Types, Applications & Research Insights (Nanotechnology Science & Technology Series)

Edited by Deborah Wright

This book discusses new research on nanosheets and nanospheres. Chapter One provides a review of the incorporation of, in particular, carbon nanosheets such as graphene and derivatives such as graphene oxide into polymeric and ceramic membranes for applications in a wide variety of industries. Chapter Two summarises some representative works of applications of transition metal dichalcogenide (TMD) nanosheets in sensor platforms. Chapter Three introduces on a new functionality exhibited by “polymer nanosphere multilayered organization”, a new type of molecular organisation, and the relationship between their structure and function. Chapter Four summarises recent advances in the electrochemical oxygen-relative reactions, such as oxygen reduction reaction and oxygen evolution reaction by using electrocatalysts of graphene and its derivatives and other 2D materials.

PB 9781536102031 £78.50 December 2016 Nova Science Publishers 140 pages 155x230mm

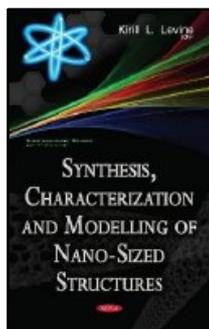


New Developments in Gold Nanomaterials Research (Nanotechnology Science & Technology Series)

Edited by James Kah, Chen Yong, Zhichuan Xu

This book provides a broad discussion on recent research advances in gold nanomaterials. Since their use in glass staining during the Gothic and Renaissance period, gold nanomaterials have recently been more extensively studied and used in different fields, including applications in biomedical and energy domains. Although the scope of research in gold nanomaterials is enormous, this book provides for the first time a practical overview that condenses this immense amount of information into a single volume. While there are a number of excellent books on the market covering various types of nanomaterials, there are very few monographs to date that specifically focus on the broad research areas on gold nanomaterials. This book attempts to capture the recent developments in gold nanomaterials research through nine chapters in four broad sections; these sections are divided by the synthesis of gold nanomaterials, biological applications, sensing, and energy applications of gold nanomaterials. Many of the chapters contain introductions to the basic physical and chemical principles of the subject area. The authors hope that this book will serve as a good introduction to people just entering the field, and also for practitioners and experts seeking information in other subfields of gold nanomaterials.

HB 9781634853620 £180.99 September 2016 Nova Science Publishers 203 pages 180x260mm



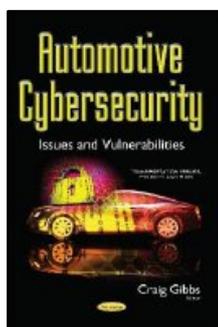
Synthesis, Characterization & Modelling of Nano-Sized Structures (Nanotechnology Science & Technology Series)

Edited by Kirill L Levine

This volume covers variety of aspects related to nanotechnology: synthesis, characterization, modelling, and few practical applications. Synthetic methods summarized in this volume are: iodine transport (Bogdanov), laser ablation (Davydov), wet chemistry methods (Alexandrova, Maximov). Electrochemical methods are the technology of choice to develop oxide structures (Levine), and electrochemical impedance spectroscopy was utilized as an electrochemical characterization method while impedance spectroscopy as a dielectric characterization method was applied by Zviagin. Oxides were also extensively studied by Maximov and Ezhovsky. Efforts in modelling by computer simulation were performed for dendronized polymers by Mikhailov and Darinsky and lizine dendrimers by Neelov. Star brushed structures were analyzed by a simple direct walk model by Polotsky. Quantum phenomena is always a focus in studies of smart nano-objects. Emphasis on this is presented by Meleshenko. Traditionally, medical applications have been the driving force for research in nanocomposites. Cancer-treating effects of some transition metal Schiff bases were reported by Yussef.

HB 9781634855181 £180.99 September 2016 Nova Science Publishers 185 pages 180x260mm

TRANSPORT TECHNOLOGY & TRADES



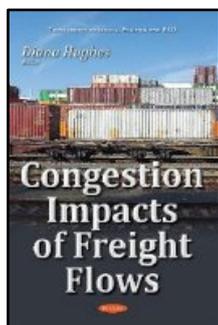
Automotive Cybersecurity

Issues & Vulnerabilities (Transportation Issues, Policies & R&D Series)

Edited by Craig Gibbs

Modern vehicles contain multiple interfaces -- connections between the vehicle and external networks -- that leave vehicle systems, including safety-critical systems, such as braking and steering, vulnerable to cyberattacks. Researchers have shown that these interfaces -- if not properly secured -- can be exploited through direct, physical access to a vehicle, as well as remotely through short-range and long-range wireless channels. This book addresses, among other things, available information about the key cybersecurity vulnerabilities in modern vehicles that could impact passenger safety; key practices and technologies, if any, available to mitigate vehicle cybersecurity vulnerabilities and the impacts of potential attacks; views of selected stakeholders on challenges they face related to vehicle cybersecurity and industry-led efforts to address vehicle cybersecurity; and Department of Transportation's (DOT) efforts to address vehicle cybersecurity.

PB 9781634859875 £90.50 December 2016 Nova Science Publishers 94 pages 155x230mm



Congestion Impacts of Freight Flows

(Transportation Issues, Policies & R&D Series)

Edited by Diana Hughes

About 93 trains a day on average crossed into the continental United States from Canada and Mexico in 2014, according to U.S. Department of Transportation's (DOT) Bureau of Transportation Statistics (BTS). Trains enter and leave the United States through 30 port of entries (POEs) -- 23 on the northern border and 7 on the southern border. Although international freight rail plays an important role in U.S. economic and trade interests, the movement of rail through U.S. communities at the border can result in blocked highway-rail grade crossings and vehicle traffic congestion. This book describes the factors that affect the movement of freight rail and the actions taken by federal agencies and others to expedite freight rail in selected POEs; and examines what is known about the impacts of freight rail operations on highway-rail grade crossings in POE communities. Moreover, the book addresses recent changes in U.S. rail and truck freight flows and the extent to which related traffic congestion is reported to impact communities; and the extent to which DOT's efforts to implement Moving Ahead for Progress in the 21st Century Act (MAP-21) address freight-related traffic congestion in communities.

PB 9781536100334 £90.50 December 2016 Nova Science Publishers 97 pages 155x230mm



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