

Toyota Bm 1200 Manual

Service Business Model Innovation in Healthcare and Hospital ManagementWorld Ocean AssessmentEdutainment Technologies. Educational Games and Virtual Reality/Augmented Reality ApplicationsSocial Network Data AnalyticsNaval Science 2Handbook of Food PreservationAnimal Cell Technology Meets GenomicsSmart Technology for Aging, Disability, and IndependenceWorld Development Report 2016Diversity and Evolution of Butterfly Wing PatternsPlant Abiotic Stress ToleranceHaemostasisMagnetism in Medicine60GHz Technology for Gbps WLAN and WPANArtificial Intelligence and Soft Computing - ICAISC 2008Ultradian Rhythms from Molecules to MindBiotechnology in JapanWorld Development Report 1978Advances in Molecular Breeding Toward Drought and Salt Tolerant CropsGastrointestinal Endoscopy in the Cancer PatientHigh-Performance Computing Using FPGAsOptical Inspection of MicrosystemsKidney Development and DiseasePheromones and Animal BehaviorClinical VirologyCrystal Dislocations: Their Impact on Physical Properties of CrystalsWater Intake, Body Water Regulation and HealthProtection of Materials and Structures From the Space EnvironmentJuran's Quality HandbookOrganizational Improvement and AccountabilityMycotoxin Reduction in Grain ChainsSpliceosomal Pre-mRNA SplicingThe Grape GenomeFluorescence In Situ Hybridization (FISH) - Application GuideGenstat 5 Reference ManualThe Bethesda Handbook of Clinical OncologyCosmic Rays

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at EarthNeuroblastomaMechanisms of Adiponectin
ActionSago Palm

Service Business Model Innovation in Healthcare and Hospital Management

This book is a printed edition of the Special Issue "Crystal Dislocations: Their Impact on Physical Properties of Crystals" that was published in Crystals

World Ocean Assessment

With near-comprehensive coverage of new advances in crop breeding for drought and salinity stress tolerance, this timely work seeks to integrate the most recent findings about key biological determinants of plant stress tolerance with modern crop improvement strategies. This volume is unique because it provides exceptionally wide coverage of current knowledge and expertise being applied in drought and salt tolerance research.

Edutainment Technologies. Educational Games and Virtual Reality/Augmented Reality Applications

The processing of food is no longer simple or straightforward, but is now a highly inter-disciplinary science. A number of new techniques have developed to extend shelf-life, minimize risk, protect the environment, and improve functional, sensory, and nutritional properties. The ever-increasing number of

food products and preservation techniques cr

Social Network Data Analytics

Examines five accountability models--two from the manufacturing sector; a performance incentive model used in the evaluation of job training programs for the poor; accountability in the legal sector; and accountability in health care as shown by clinical practice guidelines, use of statistical risk-adjustment methods, and the public reporting of health performance measures. The authors summarize the models' effectiveness and draw lessons for implementing the No Child Left Behind Act.

Naval Science 2

This book constitutes the refereed proceedings of the 6th International Conference on E-learning and Games, Edutainment 2011, held in Taipeh, Taiwan, in September 2011. The 42 full papers were carefully reviewed and selected from 130 submissions. The papers are organized in topical sections on: augmented and mixed reality in education; effectiveness of virtual reality for education; ubiquitous games and ubiquitous technology & learning; future classroom; e-reader and multi-touch; learning performance and achievement; learning by playing; game design and development; game-based learning/training; interactions in games; digital museum and technology, and behavior in games; educational robots and toys; e-learning platforms and tools; game engine/rendering/animations; game-

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assisted language learning; learning with robots and robotics education; e-portfolio and ICT-enhanced learning; game-based testing and assessment; trend, development and learning process of educational mini games; VR and edutainment.

Handbook of Food Preservation

A Textbook on Maritime History, Leadership, and Nautical Sciences for the NJROTC Student

Animal Cell Technology Meets Genomics

This first report deals with some of the major development issues confronting the developing countries and explores the relationship of the major trends in the international economy to them. It is designed to help clarify some of the linkages between the international economy and domestic strategies in the developing countries against the background of growing interdependence and increasing complexity in the world economy. It assesses the prospects for progress in accelerating growth and alleviating poverty, and identifies some of the major policy issues which will affect these prospects.

Smart Technology for Aging, Disability, and Independence

This second, completely updated and extended edition of the only reference work in this growing field of medical physics focuses on biomagnetic instrumentation as well as applications in cardiology

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and neurology. New chapters have been added on fetal magnetography and magnetic field therapy, as well as the safety aspects of magnetic fields. Written by well-known specialists from Germany, USA, Canada, Japan, the Netherlands and Scandinavia, the result is a manual for researchers in this field as well as for those who apply modern methods based on magnetism in medical practice. It equally provides a detailed overview for newcomers to the field as well as for experts familiar with only one part of the area.

World Development Report 2016

The 18th ESACT meeting was celebrated in Granada (Spain) in May 2003, and was entitled "Animal Cell Technology Meets Genomics", in order to reflect that the emerging technologies in the area of genomics, proteomics and other "-omics"-type disciplines will provide key technological assets to increase knowledge and open new horizons in animal cell technology. During the meeting a variety of top-class emerging technologies were presented together with the latest advances in more mature industrial areas. The meeting was opened by a first session devoted to the understanding of basic cellular mechanisms, and four sessions focused on applied aspects of animal cell technology: Cell-based therapies and gene-based therapies, target discovery and biopharmaceuticals. The Granada Meeting has also seen a special focus on forefront industrial case studies. The spirit and scientific excellence of the 18th ESACT meeting is now reflected in different chapters of the book. The book presents, in form of short papers, a high number

of the contributions to the meeting, and has been prepared with the aim to provide a relevant reference of the current research efforts in Animal Cell Technology.

Diversity and Evolution of Butterfly Wing Patterns

This book constitutes the refereed proceedings of the 9th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2008, held in Zakopane, Poland, in June 2008. The 116 revised contributed papers presented were carefully reviewed and selected from 320 submissions. The papers are organized in topical sections on neural networks and their applications, fuzzy systems and their applications, evolutionary algorithms and their applications, classification, rule discovery and clustering, image analysis, speech and robotics, bioinformatics and medical applications, various problems of artificial intelligence, and agent systems.

Plant Abiotic Stress Tolerance

The purpose of this Special Issue, “Water Intake, Body Water Regulation, and Health”, is to present novel reviews and experimental data regarding hydration physiology and its implication in overall health. Water has previously been dubbed the forgotten nutrient due to humans’ and animals’ ability to subsist seemingly unchanged across a wide range of daily water intakes. However, with the introduction of stressors such as exercise, diseased states, and/or

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chronic high or low water intake, the homeostatic signals related to body water regulation can influence organ and whole-body health. This Special Issue will discuss water intake, the scientific rationale surrounding the U.S. and European water intake guidelines, homeostatic mechanisms, diseases related to dysfunction of water regulation, and differences in the volume and the vehicle in which the water is contained (i.e., plain water versus mixed beverages) on water intake during and following exercise. The aim is to continue discussion surrounding water, the previously forgotten nutrient, and highlight the importance of water in daily life.

Haemostasis

This book is open access under a CC BY 4.0 license. This book addresses a wide variety of events and technologies concerning the sago palm, ranging from its botanical characteristics, culture and use to social conditions in the places where it is grown, in order to provide a record of research findings and to benefit society. It discusses various subjects, including the sago palm and related species; differentiation of species of starch-producing palm; habitat, morphological, physiological and growth characteristics; culture and management; productivity of carbon dioxide; starch extraction and manufacture; characteristics and utilization of starch; and cultural anthropological and folkloristic aspects. Problems such as food shortages due to increasing populations, global warming and climate change, and decreasing reserves of oil and other underground resources, have

become more pressing in recent years. In the context of these problems, the book examines the role of the sago palm in sustainable food production, in the manufacture of other foodstuffs, as a raw material for ethanol and in the manufacture of biodegradable plastics. In addition to academics, this book will be useful to researchers and government officials working for international agencies, national governments, municipalities, and other research organizations; technicians, researchers, managers, entrepreneurs, and others working in industries such as agriculture, plant production, food production, manufacturing, chemical engineering, energy production, and distribution.

Magnetism in Medicine

Neuroblastoma is a medical enigma. As a childhood neoplasm arising from neural crest cells, it is characterized by diverse clinical behaviors ranging from spontaneous remission to rapid tumor progression and death. Although clinical outcome can be predicted to a large extent by the stage of disease and the age at diagnosis, an in-depth understanding of its clinico-pathological behavior, now greatly aided by sophisticated molecular genetic profiling, will improve diagnostic precision and refine risk-based therapies. Comprehensive international efforts have advanced our understanding of tumor biology and improved the clinical management of children with neuroblastoma. This book reviews our current understanding of the genes and biological pathways that contribute to neuroblastoma pathogenesis,

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modern risk-based treatment approaches for these patients, and recent advances in biologically based therapy. It provides a concise up-to-date reference for practitioners, students, and researchers.

60GHz Technology for Gbps WLAN and WPAN

This book is a full colour, highly clinical multi-media atlas focusing on the role diagnostic and therapeutic endoscopy plays in the management of patients with cancer. Conveniently split into sections for each part of the GI tract, each section will follow a consistent structure. With 400 high-quality images and in addition, 21 high-definition videos showing endoscopy from the experts, this book is the perfect consultation and learning tool for all gastroenterologists, endoscopists, GI surgeons and oncologists.

Artificial Intelligence and Soft Computing - ICAISC 2008

Written by clinicians from the National Cancer Institute and other leading institutions, this comprehensive, clear, concise oncology handbook is designed specifically for quick bedside consultation. It covers all malignancies and offers busy clinicians practical guidelines on daily patient management, including commonly used treatment regimens and chemotherapy dosing and schedules. The user-friendly format features tables, charts, bullet points, and algorithms. The thoroughly updated Third Edition places an increased emphasis on practical clinical

information, and includes new chemotherapeutic agents, dosages, and treatment regimens and the latest clinical trials data. New chapters focus on basic genomics for practicing oncologists and basic principles of radiation. The succinct yet detailed presentation is ideal for board review as well as clinical reference.

Ultradian Rhythms from Molecules to Mind

This book facilitates an integrative understanding of the development, genetics and evolution of butterfly wing patterns. To develop a deep and realistic understanding of the diversity and evolution of butterfly wing patterns, it is essential and necessary to approach the problem from various kinds of key research fields such as “evo-devo,” “eco-devo,” “developmental genetics,” “ecology and adaptation,” “food plants,” and “theoretical modeling.” The past decade-and-a-half has seen a veritable revolution in our understanding of the development, genetics and evolution of butterfly wing patterns. In addition, studies of how environmental and climatic factors affect the expression of color patterns has led to increasingly deeper understanding of the pervasiveness and underlying mechanisms of phenotypic plasticity. In recognition of the great progress in research on the biology, an international meeting titled “Integrative Approach to Understanding the Diversity of Butterfly Wing Patterns (IABP-2016)” was held at Chubu University, Japan in August 2016. This book consists of selected

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contributions from the meeting. Authors include main active researchers of new findings of corresponding genes as well as world leaders in both experimental and theoretical approaches to wing color patterns. The book provides excellent case studies for graduate and undergraduate classes in evolution, genetics/genomics, developmental biology, ecology, biochemistry, and also theoretical biology, opening the door to a new era in the integrative approach to the analysis of biological problems. This book is open access under a CC BY 4.0 license.

Biotechnology in Japan

In 1912 Victor Franz Hess made the revolutionary discovery that ionizing radiation is incident upon the Earth from outer space. He showed with ground-based and balloon-borne detectors that the intensity of the radiation did not change significantly between day and night. Consequently, the sun could not be regarded as the sources of this radiation and the question of its origin remained unanswered. Today, almost one hundred years later the question of the origin of the cosmic radiation still remains a mystery. Hess' discovery has given an enormous impetus to large areas of science, in particular to physics, and has played a major role in the formation of our current understanding of universal evolution. For example, the development of new fields of research such as elementary particle physics, modern astrophysics and cosmology are direct consequences of this discovery. Over the years the field of cosmic ray research has evolved in various directions: Firstly,

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the field of particle physics that was initiated by the discovery of many so-called elementary particles in the cosmic radiation. There is a strong trend from the accelerator physics community to reenter the field of cosmic ray physics, now under the name of astroparticle physics. Secondly, an important branch of cosmic ray physics that has rapidly evolved in conjunction with space exploration concerns the low energy portion of the cosmic ray spectrum. Thirdly, the branch of research that is concerned with the origin, acceleration and propagation of the cosmic radiation represents a great challenge for astrophysics, astronomy and cosmology. Presently very popular fields of research have rapidly evolved, such as high-energy gamma ray and neutrino astronomy. In addition, high-energy neutrino astronomy may soon initiate as a likely spin-off neutrino tomography of the Earth and thus open a unique new branch of geophysical research of the interior of the Earth. Finally, of considerable interest are the biological and medical aspects of the cosmic radiation because of its ionizing character and the inevitable irradiation to which we are exposed. This book is a reference manual for researchers and students of cosmic ray physics and associated fields and phenomena. It is not intended to be a tutorial. However, the book contains an adequate amount of background materials that its content should be useful to a broad community of scientists and professionals. The present book contains chiefly a data collection in compact form that covers the cosmic radiation in the vicinity of the Earth, in the Earth's atmosphere, at sea level and underground. Included are predominantly experimental but also

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theoretical data. In addition the book contains related data, definitions and important relations. The aim of this book is to offer the reader in a single volume a readily available comprehensive set of data that will save him the need of frequent time consuming literature searches.

World Development Report 1978

This book is a unique source of information on the present state of the exciting field of molecular cytogenetics and how it can be applied in research and diagnostics. The basic techniques of fluorescence in situ hybridization and primed in situ hybridization (PRINS) are outlined, the multiple approaches and probe sets that are now available for these techniques are described, and applications of them are presented in 36 chapters by authors from ten different countries around the world. The book not only provides the reader with basic and background knowledge on the topic, but also gives detailed protocols that show how molecular cytogenetics is currently performed by specialists in this field. The FISH Application Guide initially provides an overview of the (historical) development of molecular cytogenetics, its basic procedures, the equipment required, and probe generation. The book then describes tips and tricks for making different tissues available for molecular cytogenetic studies. These are followed by chapters on various multicolor FISH probe sets, their availability, and their potential for use in combination with other approaches. The possible applications that are shown encompass the

characterization of marker chromosomes, cryptic cytogenetic aberrations and epigenetic changes in humans by interphase and metaphase cytogenetics, studies of nuclear architecture, as well as the application of molecular cytogenetics to zoology, botany and microbiology.

Advances in Molecular Breeding Toward Drought and Salt Tolerant Crops

Providing a guide to classical experimental approaches to decipher splicing mechanisms and experimental strategies that rely on novel multidisciplinary approaches, *Spliceosomal Pre-mRNA Splicing: Methods and Protocols* describes the theory of alternative pre-mRNA splicing in seven introductory chapters and then introduces protocols and their theoretical background relevant for a variety of experimental research. These protocol chapters cover basic methods to detect splicing events, analyses of alternative pre-mRNA splicing in vitro and in vivo manipulation of splicing events and high-throughput and bioinformatic analyses of alternative splicing. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols and tips on troubleshooting and avoiding known pitfalls. Comprehensive and practical, *Spliceosomal Pre-mRNA Splicing: Methods and Protocols* will aid newcomers and seasoned molecular biologists in understanding the fascinating world of alternative splicing with the ultimate goal of

paving the way for many new discoveries to come.

Gastrointestinal Endoscopy in the Cancer Patient

For decades, Juran's Quality Handbook has been the one essential reference in quality management and engineering—the ultimate authoritative source of answers on quality applications, procedures, techniques, and strategies. Now this Fifth Edition—a major revision and the first new edition of Juran's Quality Handbook in more than 10 years—forges a new standard in tools for quality. Bringing managers and engineers the most up-to-date methods, research, and theory, under the guidance of a team of the world's top experts, Juran's shows you how to plan for quality, achieve quality control, and ensure quality results. Packed with new methods, research, and thought on quality, and emphasizing the need for quality software and quality software development methods, this completely updated classic also gives you new information, new techniques, and new applications. Broad in scope and inclusive in methodology, Juran's Quality Handbook is the reference of choice for anyone concerned with quality in business, manufacturing, or engineering. Whether you're just beginning your journey or a longtime traveler on the quality path, this book is the best possible companion for your voyage.

High-Performance Computing Using FPGAs

5. 1. 1 Biological Rhythms and Clocks From an evolutionary perspective, the adaptation of an organism's behavior to its environment has depended on one of life's fundamental traits: biological rhythm generation. In virtually all light-sensitive organisms from cyanobacteria to humans, biological clocks adapt cyclic physiology to geophysical time with time-keeping properties in the circadian (24 h), ultradian (24 h) domains (Edmunds, 1988; Lloyd, 1998; Lloyd et al. , 2001; Lloyd and Murray, 2006; Lloyd, 2007; Pittendrigh, 1993; Sweeney and Hastings, 1960) By definition, all rhythms exhibit regular periodicities since they constitute a mechanism of timing. Timing exerted by oscillatory mechanisms are found throughout the biological world and their periods span a wide range from milliseconds, as in the action potential of neurons and the myocytes, to the slow evolutionary changes that require thousands of generations. In this context, to understand the synchronization of a population of coupled oscillators is an important problem for the dynamics of physiology in living systems (Aon et al. , 2007a, b; Kuramoto, 1984; Strogatz, 2003; Winfree, 1967). Circadian rhythms, the most intensively studied, are devoted to measuring daily 24 h cycles. A variety of physiological processes in a wide range of eukaryotic organisms display circadian rhythmicity which is characterized by the following major properties (Anderson et al. , 1985; Edmunds, 1988): (i) stable, autonomous (self-sustaining) oscillations having a free-running period under constant environmental conditions of ca.

Optical Inspection of Microsystems

Where conventional testing and inspection techniques fail at the micro-scale, optical techniques provide a fast, robust, and relatively inexpensive alternative for investigating the properties and quality of microsystems. Speed, reliability, and cost are critical factors in the continued scale-up of microsystems technology across many industries, and optical techniques are in a unique position to satisfy modern commercial and industrial demands. Optical Inspection of Microsystems is the first comprehensive, up-to-date survey of the most important and widely used full-field optical metrology and inspection technologies. Under the guidance of accomplished researcher Wolfgang Osten, expert contributors from industrial and academic institutions around the world share their expertise and experience with techniques such as image correlation, light scattering, scanning probe microscopy, confocal microscopy, fringe projection, grid and moiré techniques, interference microscopy, laser Doppler vibrometry, holography, speckle metrology, and spectroscopy. They also examine modern approaches to data acquisition and processing. The book emphasizes the evaluation of various properties to increase reliability and promote a consistent approach to optical testing. Numerous practical examples and illustrations reinforce the concepts. Supplying advanced tools for microsystem manufacturing and characterization, Optical Inspection of Microsystems enables you to reach toward a higher level of quality and reliability in modern micro-scale applications.

Kidney Development and Disease

Social network analysis applications have experienced tremendous advances within the last few years due in part to increasing trends towards users interacting with each other on the internet. Social networks are organized as graphs, and the data on social networks takes on the form of massive streams, which are mined for a variety of purposes. Social Network Data Analytics covers an important niche in the social network analytics field. This edited volume, contributed by prominent researchers in this field, presents a wide selection of topics on social network data mining such as Structural Properties of Social Networks, Algorithms for Structural Discovery of Social Networks and Content Analysis in Social Networks. This book is also unique in focussing on the data analytical aspects of social networks in the internet scenario, rather than the traditional sociology-driven emphasis prevalent in the existing books, which do not focus on the unique data-intensive characteristics of online social networks. Emphasis is placed on simplifying the content so that students and practitioners benefit from this book. This book targets advanced level students and researchers concentrating on computer science as a secondary text or reference book. Data mining, database, information security, electronic commerce and machine learning professionals will find this book a valuable asset, as well as primary associations such as ACM, IEEE and Management Science.

Pheromones and Animal Behavior

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Biotechnology in Japan is a complete guide to economic, scientific and regulatory aspects of Japanese research centres and companies. Profiles for more than 400 private Japanese companies and almost 200 universities and research institutes are given in great detail. Ministries providing research guidelines and ongoing research projects are analysed. The book is the first comprehensive source in the English language and is of particular interest to consultants, managers and researchers seeking cooperation with Japanese partners.

Clinical Virology

Cereal grain safety from farm to table Mycotoxin Reduction in Grain Chains examines the ways in which food producers, inspectors, and processors can keep our food supply safe. Providing guidance on identification, eradication, and prevention at each stop on the "grain chain, this book is an invaluable resource for anyone who works with cereal grains. Discussions include breeding and crop management, chemical control, contamination prediction, and more for maize, wheat, sorghum, rice, and other major grains. Relevant and practical in the field, the lab, and on the production floor, this book features critical guidance for every point from farm to table.

Crystal Dislocations: Their Impact on Physical Properties of Crystals

Kidney Development and Disease brings together established and young investigators who are leading

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authorities in nephrology to describe recent advances in three primary areas of research. The first section describes the use of animal models as powerful tools for the discovery of numerous molecular mechanisms regulating kidney development. The second section focuses on nephric cell renewal and differentiation, which lead to diverse cell fates within the developing kidney, and discusses diseases resulting from the aberrant regulation of the balance between cell fate decisions. The final section concentrates on morphogenesis of the developing kidney and its maintenance after formation as well as the diseases resulting from failures in these processes. Kidney form and function have been extensively studied for centuries, leading to discoveries related to their development and disease. Recent scientific advances in molecular and imaging techniques have broadened our understanding of nephron development and maintenance as well as the diseases related to these processes.

Water Intake, Body Water Regulation and Health

This Methods in Molecular Biology book reviews the major components of the haemostatic system, general principles of haemostatic testing and protocols for assessing various aspects of the haemostatic system, grouped according to their functional indications."

Protection of Materials and Structures From the Space Environment

Genstat 5 is the latest version of the well-known statistical package Genstat. Written by the same group that devised the package, this volume will be the primary reference source for all users.

Juran's Quality Handbook

Plants have to manage a series of environmental stresses throughout their entire lifespan. Among these, abiotic stress is the most detrimental; one that is responsible for nearly 50% of crop yield reduction and appears to be a potential threat to global food security in coming decades. Plant growth and development reduces drastically due to adverse effects of abiotic stresses. It has been estimated that crop can exhibit only 30% of their genetic potentiality under abiotic stress condition. So, this is a fundamental need to understand the stress responses to facilitate breeders to develop stress resistant and stress tolerant cultivars along with good management practices to withstand abiotic stresses. Also, a holistic approach to understanding the molecular and biochemical interactions of plants is important to implement the knowledge of resistance mechanisms under abiotic stresses. Agronomic practices like selecting cultivars that is tolerant to wide range of climatic condition, planting date, irrigation scheduling, fertilizer management could be some of the effective short-term adaptive tools to fight against abiotic stresses. In addition, “system biology” and “omics approaches” in recent studies offer a long-term opportunity at the molecular level in dealing with abiotic stresses. The genetic approach, for example,

selection and identification of major conditioning genes by linkage mapping and quantitative trait loci (QTL), production of mutant genes and transgenic introduction of novel genes, has imparted some tolerant characteristics in crop varieties from their wild ancestors. Recently research has revealed the interactions between micro-RNAs (miRNAs) and plant stress responses exposed to salinity, freezing stress and dehydration. Accordingly transgenic approaches to generate stress-tolerant plant are one of the most interesting researches to date. This book presents the recent development of agronomic and molecular approaches in conferring plant abiotic stress tolerance in an organized way. The present volume will be of great interest among research students and teaching community, and can also be used as reference material by professional researchers.

Organizational Improvement and Accountability

The goals of the 10th International Space Conference on “Protection of Materials and Structures from Space Environment” ICPMSE-10J, since its inception in 1992, have been to facilitate exchanges between members of the various engineering and science disciplines involved in the development of space materials, including aspects of LEO, GEO and Deep Space environments, ground-based qualification, and in-flight experiments and lessons learned from operational vehicles that are closely interrelated to disciplines of the atmospheric sciences, solar-terrestrial interactions and space life sciences. The

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knowledge of environmental conditions on and around the Moon, Mars, Venus and the low Earth orbit as well as other possible candidates for landing such as asteroids have become an important issue, and protecting both hardware and human life from the effects of space environments has taken on a new meaning in light of the increased interest in space travel and colonization of other planets. And while many material experiments have been carried out on the ground and in open space in the last 50 years (LDEF, MEEP, SARE, MISSE, AOP, DSPSE, ESEM, EURECA, HST, MDIM, MIS, MPID, MPAC and SEED), many questions regarding the environmental impact of space on materials remain either poorly understood or unanswered. The coming generations of scientists will have to continue this work and tackle new challenges, continuing to build the level of confidence humans will need to continue the colonization of space. It is hoped that the proceedings of the ICPMSE-10J presented in this book will constitute a small contribution to doing so.

Mycotoxin Reduction in Grain Chains

Digital technologies are spreading rapidly, but digital dividends--the broader benefits of faster growth, more jobs, and better services--are not. If more than 40 percent of adults in East Africa pay their utility bills using a mobile phone, why can't others around the world do the same? If 8 million entrepreneurs in China--one third of them women--can use an e-commerce platform to export goods to 120 countries, why can't entrepreneurs elsewhere achieve the same

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global reach? And if India can provide unique digital identification to 1 billion people in five years, and thereby reduce corruption by billions of dollars, why can't other countries replicate its success? Indeed, what's holding back countries from realizing the profound and transformational effects that digital technologies are supposed to deliver? Two main reasons. First, nearly 60 percent of the world's population are still offline and can't participate in the digital economy in any meaningful way. Second, and more important, the benefits of digital technologies can be offset by growing risks. Startups can disrupt incumbents, but not when vested interests and regulatory uncertainty obstruct competition and the entry of new firms. Employment opportunities may be greater, but not when the labor market is polarized. The internet can be a platform for universal empowerment, but not when it becomes a tool for state control and elite capture. The World Development Report 2016 shows that while the digital revolution has forged ahead, its 'analog complements'--the regulations that promote entry and competition, the skills that enable workers to access and then leverage the new economy, and the institutions that are accountable to citizens--have not kept pace. And when these analog complements to digital investments are absent, the development impact can be disappointing. What, then, should countries do? They should formulate digital development strategies that are much broader than current information and communication technology (ICT) strategies. They should create a policy and institutional environment for technology that fosters the greatest benefits. In short, they need to build a

strong analog foundation to deliver digital dividends to everyone, everywhere.

Spliceosomal Pre-mRNA Splicing

This book demonstrates how to successfully manage and lead healthcare institutions by employing the logic of business model innovation to gain competitive advantages. Since clerk-like routines in professional organizations tend to overlook patient and service-centered healthcare solutions, it challenges the view that competition and collaboration in the healthcare sector should not only incorporate single-end services, therapies or diagnosis related groups. Moreover, the authors focus on holistic business models, which place greater emphasis on customer needs and put customers and patients first. The holistic business models approach addresses topics such as business operations, competitiveness, strategic business objectives, opportunities and threats, critical success factors and key performance indicators. The contributions cover various aspects of service business innovation such as reconfiguring the hospital business model in healthcare delivery, essential characteristics of service business model innovation in healthcare, guided business modeling and analysis for business professionals, patient-driven service delivery models in healthcare, and continuous and co-creative business model creation. All of the contributions introduce business models and strategies, process innovations, and toolkits that can be applied at the managerial level, ensuring the book will be of interest to healthcare professionals, hospital

managers and consultants, as well as scholars, whose focus is on improving value-generating and competitive business architectures in the healthcare sector.

The Grape Genome

The adipokine adiponectin is very concentrated in plasma, and decreased levels of adiponectin are associated with pathological conditions such as obesity, diabetes, cardiovascular diseases, and metabolic syndrome. When produced in its full-length form, adiponectin self-associates to generate multimeric complexes. The full-length form of adiponectin can be cleaved by the globular form of elastase that is produced locally, and the resulting biological effects are exerted in a paracrine or autocrine manner. The different forms of adiponectin bind to specific receptors consisting of two G-protein-independent, seven-transmembrane-spanning receptors, called AdipoR1 and AdipoR2, while T-cadherin has been identified as a potential receptor for high molecular weight complexes of adiponectin. Adiponectin exerts a key role in cellular metabolism, regulating glucose levels as well as fatty acid breakdown. However, its biological effects are heterogeneous, involving multiple target tissues. The Special Issue “Mechanisms of Adiponectin Action” highlights the pleiotropic role of this hormone through 3 research articles and 7 reviews. These papers focus on the recent knowledge regarding adiponectin in different target tissues, both in healthy and in diseased conditions.

Fluorescence In Situ Hybridization (FISH) - Application Guide

Independent living with smart technologies Smart Technology for Aging, Disability, and Independence: The State of the Science brings together current research and technological developments from engineering, computer science, and the rehabilitation sciences, detailing how its applications can promote continuing independence for older persons and those with disabilities. Leading experts from multiple disciplines worldwide have contributed to this volume, making it the definitive resource. The text begins with a thorough introduction that presents important concepts, defines key terms, and identifies demographic trends at work. Using detailed product descriptions, photographs and illustrations, and case studies, subsequent chapters discuss cutting-edge technologies, including: * Wearable systems * Human-computer interactions * Assisted vision and hearing * Smart wheelchairs * Handheld devices and smart phones * Visual sensors * Home automation * Assistive robotics * In-room monitoring systems * Telehealth After considering specific high-technology solutions, the text examines recent trends in other critical areas, such as basic assistive technologies, driving, transportation and community mobility, home modifications and design, and changing standards of elder care. Students and professionals in the rehabilitation sciences, healthcare providers, researchers in computer science and engineering, and non-expert readers will all appreciate this text's thorough coverage and clear presentation of the state

of the science.

Genstat 5 Reference Manual

This book addresses 60 GHz technology for Gbps WLAN and WPAN from theory to practice, covering key aspects for successful deployment. In this book, the authors focus specifically on 60 GHz wireless technology which has emerged as the most promising candidate for multi-gigabit wireless indoor communication systems. 60 GHz technology offers various advantages over current or existing communications systems (e.g. huge unlicensed bandwidth worldwide, high transmit power, high frequency reuse and small form factor), which enables many disruptive applications that are otherwise difficult if not impossible to be realized at lower frequencies. The book addresses all aspects of the state-of-the-art in 60 GHz technology for high data rate wireless applications. Key Features:

- Comprehensive coverage from theory to practice: provides readers with a thorough technical guide of 60 GHz technology development
- Brings together the entire area of 60GHz technology for Gigabits per second (Gbps) WLAN and WPAN applications.
- Discusses practical system designs covering wide aspects such as antenna propagation, beamforming, circuit design, digital communication, signal processing, system architectures, etc.
- Provides up-to-date standardization activities, regulatory issues, technology development as well as future trends
- Includes examples and case studies for practical scenarios
- Contains theoretical, simulation and

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experimental results to demonstrate and compare the performance of various schemes (or systems) This book serves as an excellent reference for system engineers, system architects, IC designers, standard engineers, researchers, and vendor and manufacturer consumers. Technical consultants, software and application developers will also find this book of interest.

The Bethesda Handbook of Clinical Oncology

This book describes the current state of international grape genomics, with a focus on the latest findings, tools and strategies employed in genome sequencing and analysis, and genetic mapping of important agronomic traits. It also discusses how these are having a direct impact on outcomes for grape breeders and the international grape research community. While *V. vinifera* is a model species, it is not always appreciated that its cultivation usually requires the use of other *Vitis* species as rootstocks. The book discusses genetic diversity within the *Vitis* genus, the available genetic resources for breeding, and the available genomic resources for other *Vitis* species. Grapes (*Vitis vinifera* spp. *vinifera*) have been a source of food and wine since their domestication from their wild progenitor (*Vitis vinifera* ssp. *sylvestris*) around 8,000 years ago, and they are now the world's most valuable horticultural crop. In addition to being economically important, *V. vinifera* is also a model organism for the study of perennial fruit crops for two reasons: Firstly, its ability to be

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transformed and micropropagated via somatic embryogenesis, and secondly its relatively small genome size of 500 Mb. The economic importance of grapes made *V. vinifera* an obvious early candidate for genomic sequencing, and accordingly, two draft genomes were reported in 2007. Remarkably, these were the first genomes of any fruiting crop to be sequenced and only the fourth for flowering plants. Although riddled with gaps and potentially omitting large regions of repetitive sequences, the two genomes have provided valuable insights into grape genomes. Cited in over 2,000 articles, the genome has served as a reference in more than 3,000 genome-wide transcriptional analyses. Further, recent advances in DNA sequencing and bioinformatics are enabling the assembly of reference-grade genome references for more grape genotypes revealing the exceptional extent of structural variation in the species.

Cosmic Rays at Earth

High-Performance Computing using FPGA covers the area of high performance reconfigurable computing (HPRC). This book provides an overview of architectures, tools and applications for High-Performance Reconfigurable Computing (HPRC). FPGAs offer very high I/O bandwidth and fine-grained, custom and flexible parallelism and with the ever-increasing computational needs coupled with the frequency/power wall, the increasing maturity and capabilities of FPGAs, and the advent of multicore processors which has caused the acceptance of

parallel computational models. The Part on architectures will introduce different FPGA-based HPC platforms: attached co-processor HPRC architectures such as the CHREC's Novo-G and EPCC's Maxwell systems; tightly coupled HRPC architectures, e.g. the Convey hybrid-core computer; reconfigurably networked HPRC architectures, e.g. the QPACE system, and standalone HPRC architectures such as EPFL's CONFETTI system. The Part on Tools will focus on high-level programming approaches for HPRC, with chapters on C-to-Gate tools (such as Impulse-C, AutoESL, Handel-C, MORA-C++); Graphical tools (MATLAB-Simulink, NI LabVIEW); Domain-specific languages, languages for heterogeneous computing (for example OpenCL, Microsoft's Kiwi and Alchemy projects). The part on Applications will present case from several application domains where HPRC has been used successfully, such as Bioinformatics and Computational Biology; Financial Computing; Stencil computations; Information retrieval; Lattice QCD; Astrophysics simulations; Weather and climate modeling.

Neuroblastoma

The essential reference of clinical virology Virology is one of the most dynamic and rapidly changing fields of clinical medicine. For example, sequencing techniques from human specimens have identified numerous new members of several virus families, including new polyomaviruses, orthomyxoviruses, and bunyaviruses. Clinical Virology, Fourth Edition, has been extensively revised and updated to incorporate

the latest developments and relevant research. Chapters written by internationally recognized experts cover novel viruses, pathogenesis, epidemiology, diagnosis, treatment, and prevention, organized into two major sections: Section 1 provides information regarding broad topics in virology, including immune responses, vaccinology, laboratory diagnosis, principles of antiviral therapy, and detailed considerations of important organ system manifestations and syndromes caused by viral infections. Section 2 provides overviews of specific etiologic agents and discusses their biology, epidemiology, pathogenesis of disease causation, clinical manifestations, laboratory diagnosis, and management. Clinical Virology provides the critical information scientists and health care professionals require about all aspects of this rapidly evolving field.

Mechanisms of Adiponectin Action

Sago Palm

Explains how animals use chemical communication, emphasising the evolutionary context and covering fields from ecology to neuroscience and chemistry.

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