

Honda 1211 Hydrostatic La

As we all know, electrons carry both charge and spin. The processing of information in conventional electronic devices is based only on the charge of electrons. Spin electronics, or spintronics, uses the spin of electrons, as well as their charge, to process information. Metals, semiconductors, and insulators are the basic materials that constitute the components of electronic devices, and these types of materials have been transforming all aspects of society for over a century. In contrast, magnetic metals, half-metals (including zero-gap half-metals), magnetic semiconductors (including spin-gapless semiconductors), dilute magnetic semiconductors, and magnetic insulators are the materials that will form the basis for spintronic devices. This book aims to collect a range of papers on novel materials that have intriguing physical properties and numerous potential practical applications in spintronics. Rehabilitation is, by definition, the restoration of optimal form and function for an athlete. In this edition in the Encyclopedia series, the editor and contributors advocate that rehabilitation should begin as soon as possible after the injury occurs, alongside therapeutic measures such as anti-inflammatories and other pain killing agents. This might also begin before, or immediately after, surgery. The rehabilitative process is therefore managed by a multi-disciplinary team, including physicians, physiotherapists, psychologists, nutritionists, and athletic trainers, among others. This book considers the three phases of rehabilitation: pain relief, protection of the affected area and limitation of tissue damage; limitation of impairment and recovery of flexibility, strength, endurance, balance and co-ordination; and finally the start of conditioning to return to training and competition.

This important book fills a need in the developing area of Pain Medicine. It provides physicians with an up-to-date resource that details the current understanding about the basic science underlying the mechanism of action of the various CAM therapies used for pain. It summarizes the clinical evidence both for efficacy and safety, and finishes with practical guidelines about how such treatments could be successfully and safely integrated into a Pain practice.

This book compiles new findings in plant electrophysiology from the work of internationally renowned experts in the fields of electrophysiology, bio-electrochemistry, biophysics, signal transduction, phloem transport, tropisms, ion channels, plant electrochemistry, and membrane transport. Opening with a historical introduction, the book reviews methods in plant electrophysiology, introducing such topics as measuring membrane potentials and ion fluxes, patch-clamp technique, and electrochemical sensors. The coverage includes experimental results and their theoretical interpretation.

The Mediterranean Genetic Code

Recent Advances in Novel Materials for Future Spintronics

Effects of Climate Change Across Ocean Regions

Theory and Methods

Illinois Services Directory

Plant Electrophysiology

The book "The Mediterranean Genetic Code - Grapevine and Olive" collects relevant papers documenting the results of research in grapevine and olive genetics, as a contribution to overall compendium of the existing biodiversity for both species with insight into molecular mechanisms responsible for their desirable and important traits. Book encompasses a broad and diverse palette of different topics related to grapevine and olive genetics, with no areal or any other strict limitation, keeping the title as a loose frame for borderless science. Divided in four sections it takes us for a "molecular walk" through different levels of genetic variability, uncovering the remains of still existing wild populations and treasures of neglected local peculiarities, weaving the network from plant to product and back to the beginning, to the hearth of all questions asked and answers hidden in genetics.

The growing interest in scaffolding design and increasing research programs dedicated to regenerative medicine corroborate the need for Scaffolding in Tissue Engineering. While certain books and journal articles address various aspects in the field, this is the first current, comprehensive text focusing on scaffolding for tissue engineering. Scaffolding in Tissue Engineering reviews the general principles of tissue engineering and concentrates on the principles, methods, and applications for a broad range of tissue engineering scaffolds. The first section presents an in-depth exploration of traditional and novel materials, including alginates, polysaccharides, and fibrillar fibrin gels. The following section covers fabrication technologies, discussing three-dimensional scaffold design, laboratory-scale manufacture of a cell carrier, phase separation, self-assembly, gas foaming, solid freeform fabrication, injectable systems, and immunoisolation techniques. Subsequent chapters examine structural and functional scaffold modification, composite scaffolds, bioactive hydrogels, gene delivery, growth factors, and degradation of biodegradable polymers. The final section explores various tissue engineering applications, comprising chapters

on blood cell substitutes, and tissue engineering of nerves, the tendons, ligaments, cornea, cartilage and myocardium, meniscal tissue. While providing a comprehensive summary of current knowledge and technologies, Scaffolding in Tissue Engineering gives readers insight into new trends and directions for scaffold development and for an ever-expanding range of tissue engineering applications.

This internationally renowned reference work is a fully updated and expanded second edition of the most comprehensive title available on pleural diseases. Building on the many strengths of the highly respected first edition, the book features a detailed yet lucid basic science section to support understanding of the physiological and pathophysiological mechanisms that underlie diseases of the pleura. This is followed by a wide-ranging series of clinical chapters, discussing both familiar and less common aspects of pleural diseases. Chapters in the clinical section are written in an accessible and uniform style, making extensive use of illustrative material and covering definition, incidence and epidemiology, etiology and pathogenesis, clinical presentation, investigations, treatments, possible complications and directions for future development. State-of-the-art scientific knowledge is presented at an appropriate level for the practicing clinician, and published management guidelines are included where relevant. Each chapter concludes with a summary of its 'key points', highlighting practical messages regarding patient management for the reader. Textbook of Pleural Diseases is an indispensable reference for pulmonary physicians and trainees worldwide.

Advanced 3D-Printed Systems and Nanosystems for Drug Delivery and Tissue Engineering explores the intricacies of nanostructures and 3D printed systems in terms of their design as drug delivery or tissue engineering devices, their further evaluations and diverse applications. The book highlights the most recent advances in both nanosystems and 3D-printed systems for both drug delivery and tissue engineering applications. It discusses the convergence of biofabrication with nanotechnology, constructing a directional customizable biomaterial arrangement for promoting tissue regeneration, combined with the potential for controlled bioactive delivery. These discussions provide a new viewpoint for both biomaterials scientists and pharmaceutical scientists. Shows how nanotechnology and 3D printing are being used to create systems which are intelligent, biomimetic and customizable to the patient Explores the current generation of nanostructured 3D printed medical devices Assesses the major challenges of using 3D printed nanosystems for the manufacture of new pharmaceuticals

Utilisation of Bioactive Compounds from Agricultural and Food Production Waste

Bifurcation Stenting

Gazette Du Bureau Des Brevets

Cellular and Molecular Aspects of Plant-Nematode Interactions

Optical Coherence Tomography in Age-Related Macular Degeneration

Proceedings of the 9th International Symposium on Gastrointestinal Motility held in Aix-en-Provence, France, September 12-16, 1983

Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The large quantity of waste generated from agricultural and food production remains a great challenge and an opportunity for the food industry. As there are numerous risks associated with waste for humans, animals and the environment, billions of dollars are spent on the treatment of agricultural and food waste. Therefore, the utilisation of bioactive compounds isolated from waste not only could reduce the risks and the costs for treatment of waste, but also could potentially add more value for agricultural and food production. This book provides comprehensive information related to extraction and isolation of bioactive compounds from agricultural and food production waste for utilisation in the food, cosmetic and pharmaceutical industries. The topics range from an overview on challenges and opportunities related to agricultural and food waste, the bioactive compounds in the waste, the techniques used to analyse, extract and isolate these compounds to several specific examples for potential utilisation of waste from agricultural and food industry. This book also further discusses the potential of bioactives isolated from agricultural and food waste being re-utilised in the food, cosmetic and pharmaceutical industries. It is intended for students, academics, researchers and professionals who are interested in or associated with agricultural and food waste.

Engineering Fundamentals: An Introduction to Engineering, SI Edition Cengage Learning

This book discusses fundamentals of nanostructured ceramics involving functional, structural and high temperature materials. It provides both solved numerical problems and unsolved problems to enable the reader to envisage the correlation between synthesis process and properties in the perspective of new material development. It serves as a concise text to answer the basics and achieve research goals for academia and industry. Key Features Deals with basic strategy on data

interpretation for nanostructured ceramics Proposes to bridge the gap between the nano and bulk properties of nanostructured ceramics Discusses brief schematics and equations to understand the different properties of nano to bulk ceramics Presents mode of data acquisition and interpretation through statistical module and solved numerical Includes unsolved numericals based on properties, data acquisition and interpretation

Million Dollar Directory

Nanoparticle Technology Handbook

Index to Scientific Reviews

Nanostructured Ceramics

High Performance Visualization

Surface and Dynamic Properties, Applications

This volume reviews the most recent knowledge in the field of gastrointestinal motility in health and disease. The topics addressed include basic as well as clinical data concerning the motor functions of the entire gut: the lower oesophageal sphincter and the gastro-oesophageal reflux; the gastric emptying and the role of the pylorus; the motility of the biliary tract and its disorders; the cyclic motor activity of the gut and intestinal transit; the colonic and ano-rectal motility. There are also important contributions in physiology and pharmacology relating to the neurohumoral regulation of the gut, and the function of digestive smooth muscle. Several papers explore the nature of the linkage between brain and gut, a link which has long been deduced by clinicians but not, until recently, systematically explored by scientists. The individual papers, selected from a large number of submissions, have been subject to 'peer-review' by an international committee which includes both clinicians and basic scientists. Therefore this book should serve as an up to date source of information for researchers concerned with basic sciences as well as for clinicians in gastroenterology, medicine and surgery. C. Roman v This volume is dedicated to the memory of two friends and colleagues: Professor Dr J. HELLEMANS Professor Dr H. MONGES Acknowledgments This was the 9th of this series of symposia held alternatively in Europe and North America, and the first to be held in France.

Written by the leading authority in the field of solid-state phase transformations, Theory of Transformations in Steels is the first book to provide readers with a complete discussion of the theory of transformations in steel. Offers comprehensive treatment of solid-state transformations, covering the vast number in steels Serves as a single source for almost any aspect of the subject Features discussion of physical properties, thermodynamics, diffusion, and kinetics Covers ferrites, martensite, cementite, carbides, nitrides, substitutionally-alloyed precipitates, and pearlite Contains a thoroughly researched and comprehensive list of references as further and recommended reading With its broad and deep coverage of the subject, this work aims at inspiring research within the field of materials science and metallurgy.

This book is a printed edition of the Special Issue "Nutrition and Liver Disease" that was published in Nutrients

Focused on central nervous system (CNS) drug discovery efforts, this book educates drug researchers about the blood-brain barrier (BBB) so they can affect important improvements in one of the most significant and most challenging areas of drug discovery. Written by world experts to provide practical solutions to increase brain penetration or minimize CNS side-effects Reviews state-of-the-art in silico, in vitro, and in vivo tools to assess brain penetration and advanced CNS drug delivery strategies Covers BBB physiology, medicinal chemistry design principles, free drug hypothesis for the BBB, and transport mechanisms including passive diffusion, uptake/efflux transporters, and receptor-mediated processes Highlights the advances in modelling BBB pharmacokinetics and dynamics relationships (PK/PD) and physiologically-based pharmacokinetics (PBPK) Discusses case studies of successful CNS and non-CNS drugs, lessons learned and paths to the market

Blood-Brain Barrier in Drug Discovery

Theory of Transformations in Steels

Rehabilitation of Sports Injuries

Gastrointestinal Motility

Essential Radiology for Sports Medicine

Integrative Pain Medicine

Observations of neutrinos being emitted by the supernova SN1987A, star neutrinos, and atmospheric neutrinos have provided new insights into astronomy, as well as new unresolved phenomena such as the solar neutrino problem, spurring investigative studies among particle physicists and astrophysicists. One of the most important features of this book is its enumeration of a number of basic properties of neutrinos and their relationship to Grand Unified Theories, focusing on the origin of the neutrino's mass and the generation mixing of neutrinos. All the kamiokande results, detector performances, and complete references are included.

The Studies in Physiology series provides a concise introduction to developments in complex areas of physiology for a wide audience. Published on behalf of the Physiology Society, Cardiovascular Regulation provides an up-to-date account of our current understanding of the control of the cardiovascular system that is not covered by existing textbooks. Both students and lecturers

of cardiovascular and exercise physiology, medicine, dentistry and biomedical sciences will find this book informative and easy to read. Each chapter has numerous summary boxes. 'Essential reading' suggestions provide additional reading for undergraduates and the suggestions for 'Further reading' cover the subject to postgraduate level.

Includes annual cumulative index of inventors and patentees.

This will be a substantial revision of a good selling text for upper division/first graduate courses in biomedical transport phenomena, offered in many departments of biomedical and chemical engineering. Each chapter will be updated accordingly, with new problems and examples incorporated where appropriate. A particular emphasis will be on new information related to tissue engineering and organ regeneration. A key new feature will be the inclusion of complete solutions within the body of the text, rather than in a separate solutions manual. Also, Matlab will be incorporated for the first time with this Fourth Edition.

America's National Game

Characterization and Analysis

From Minutes to Months

Seamless Prediction of the Earth System

Engineering Fundamentals: An Introduction to Engineering, SI Edition

Handbook of Vegetables and Vegetable Processing, Second Edition is the most comprehensive guide on vegetable technology for processors, producers, and users of vegetables in food manufacturing. This complete handbook contains 42 chapters across two volumes, contributed by field experts from across the world. It provides contemporary information that brings together current knowledge and practices in the value-chain of vegetables from production through consumption. The book is unique in the sense that it includes coverage of production and postharvest technologies, innovative processing technologies, packaging, and quality management. Handbook of Vegetables and Vegetable Processing, Second Edition covers recent developments in the areas of vegetable breeding and production, postharvest physiology and storage, packaging and shelf life extension, and traditional and novel processing technologies (high-pressure processing, pulse-electric field, membrane separation, and ohmic heating). It also offers in-depth coverage of processing, packaging, and the nutritional quality of vegetables as well as information on a broader spectrum of vegetable production and processing science and technology. Coverage includes biology and classification, physiology, biochemistry, flavor and sensory properties, microbial safety and HACCP principles, nutrient and bioactive properties In-depth descriptions of key processes including, minimal processing, freezing, pasteurization and aseptic processing, fermentation, drying, packaging, and application of new technologies Entire chapters devoted to important aspects of over 20 major commercial vegetables including avocado, table olives, and textured vegetable proteins This important book will appeal to anyone studying or involved in food technology, food science, food packaging, applied nutrition, biosystems and agricultural engineering, biotechnology, horticulture, food biochemistry, plant biology, and postharvest physiology.

Nanoelectronics is changing the way the world communicates, and is transforming our daily lives. Continuing Moore's law and miniaturization of low-power semiconductor chips with ever-increasing functionality have been relentlessly driving R&D of new devices, materials, and process capabilities to meet performance, power, and cost requirements. This book covers up-to-date advances in research and industry practices in nanometrology, critical for continuing technology scaling and product innovation. It holistically approaches the subject matter and addresses emerging and important topics in semiconductor R&D and manufacturing. It is a complete guide for metrology and diagnostic techniques essential for process technology, electronics packaging, and product development and debugging—a unique approach compared to other books. The authors are from academia, government labs, and industry and have vast experience and expertise in the topics presented. The book is intended for all those involved in IC manufacturing and nanoelectronics and for those studying nanoelectronics process and assembly technologies or working in device testing, characterization, and diagnostic techniques.

This book is Albert Spalding's work of "historic facts concerning the beginning, evolution, development and popularity of base ball, with personal reminiscences of its vicissitudes, its victories and its votaries." It is one of the defining books in the

early formative years of modern baseball.

Praise for Introductory Raman Spectroscopy Highlights basic theory, which is treated in an introductory fashion Presents state-of-the-art instrumentation Discusses new applications of Raman spectroscopy in industry and research

Nutrition and Liver Disease

Enabling Extreme-Scale Scientific Insight

Introductory Raman Spectroscopy

Grapevine and Olive

Handbook of Vegetables and Vegetable Processing

Hydrogen in Intermetallic Compounds II

Here is expert guidance on one of the most vexing clinical challenges faced by interventional cardiologists. Written by global thought leaders in the area and edited by two internationally-recognized pioneers in interventional cardiology, Bifurcation Stenting covers all techniques, imaging modalities, and devices in current use, including VH-IVUS and OCT. It includes practical tips/tricks from leading experts and a section of challenging cases to further illustrate the material and help readers better understand the treatment of bifurcation lesions.

This volume on liver transplantation is unique in the range of its coverage. Following introductory chapters on surgical and radiological anatomy, separate sections are devoted to organ donors and to adult and pediatric recipients. Surgical indications and techniques, the role of radiological modalities, and the treatment of complications are all fully discussed and illustrated.

Rapid or even dramatic progress has been made in the field of AMD over recent years, leading to a constant revision of basic concepts. A wide range of fundus imaging modalities are now available, and this book explains the respective value of each technique. The information provided by OCT is presented logically by comparison with plain films, autofluorescence, fluorescein angiography, or indocyanine green angiography. Meticulous biomicroscopic examination of macular changes and the essential value of fluorescein angiography for the detection of anatomical alterations of the macula and for precise evaluation of lesions and their course by indocyanine green angiography have naturally led the author Gabriel Coscas to analyze the new data provided by OCT.

The topic of hydrogen in an on metals and alloys is important in a number of disciplines including solid-state physics, materials science, physical chemistry, and energy technology. This volume treats the dynamics of hydrogen in intermetallic compounds, surface properties, kinetics, and applications of metal hydrides in energy technology. In addition, selected experimental methods are described. The introductory chapter will enable non-specialists to gain an overall picture of the field and to appreciate the relevant scientific issue. The companion volume, Hydrogene in Intermetallic Compounds I, was published as Vol. 63 of Topics in Applied Physics.

Optimizing Brain Exposure of CNS Drugs and Minimizing Brain Side Effects for Peripheral Drugs

Textbook of Pleural Diseases Second Edition

Historic Facts Concerning the Beginning, Evolution, Development and Popularity of Base Ball, with Personal Reminiscences of Its Vicissitudes, Its Victories and Its Votaries

Scaffolding In Tissue Engineering

Cumulated Index Medicus

Basic Transport Phenomena in Biomedical Engineering

Nanoparticle technology, which handles the preparation, processing, application and characterisation of nanoparticles, is a new and revolutionary technology. It becomes the core of nanotechnology as an extension of the conventional Fine Particle / Powder Technology. Nanoparticle technology plays an important role in the implementation of nanotechnology in many engineering and industrial fields including electronic devices, advanced ceramics, new batteries, engineered catalysts, functional paint and ink, Drug Delivery System, biotechnology, etc.; and makes use of the unique properties of the nanoparticles which are completely different from those of the bulk materials. This new handbook is the first to explain complete aspects of nanoparticles with many application examples showing their advantages and advanced development. There are handbooks which briefly mention the nanosized particles or their related applications, but no handbook describing the complete aspects of nanoparticles has been published so far. The handbook elucidates of the basic properties of nanoparticles and various nanostructural materials with their characterisation methods in the first part. It also introduces more than 40 examples of practical and potential uses of nanoparticles in the later part dealing with applications. It is intended to give readers a clear picture of nanoparticles as well as new ideas or hints on their applications to create new materials or to improve the performance of the advanced functional materials developed with the nanoparticles. * Introduces all aspects of nanoparticle technology, from the fundamentals to applications. * Includes basic information on the preparation through to the characterization of nanoparticles from various viewpoints * Includes information on nanostructures, which play an important role in practical applications.

Imaging plays an increasingly vital role in the management of athletes aiding diagnosis, injury grading and prognosis, as well as guiding therapy. These

processes apply equally to elite and recreational athletes young and old. I have always found that understanding the relevance of imaging findings is easier when accompanied by knowledge of the anatomy, biomechanics and pathological processes involved in injury formation. This textbook has been developed with both radiologists and sports clinicians in mind and aims to bring all these processes together and illustrate the spectrum of injury and associated clinical features for specific anatomical areas. Internationally recognized musculoskeletal experts have contributed chapters which provide an imaging and clinical overview of the most relevant joint, bone and soft tissue athletic injuries. There is guidance for the reader on why specific injuries occur, how to identify the optimal imaging evaluation and how to interpret the subsequent imaging findings. Acute and overuse injuries are discussed as well as the premature degenerative processes that occur in athletes. State-of-the-art imaging techniques and findings are presented including the use of musculoskeletal ultrasound, conventional MR imaging and MR arthrography. Therapeutic image-guided intervention using fluoroscopy, CT, and ultrasound is also discussed. This balance of techniques should allow a clinician whose practice focuses on one particular modality to become aware not only of that technique's abilities but other modalities and their capabilities and limitations. Leeds, UK Philip Robinson vii Contents 1 Knee Injuries

. 1 Melanie A. Hopper and Andrew J.

Supramolecular Polymers, Second Edition details assembly processes and structure-function correlation in natural and synthetic self-assembling materials, focusing on developments occurred over the past five years. The book highlights developments in the synthesis of complex structures, chemical design principles, and theoretical models of growth processes resulting in an increasingly accurate prediction of stability, degree of polymerization, and shape of various assemblies. It focuses on the rich variety of properties, functions, and applications of self-assembling supramolecular polymers. Supramolecular Polymers, Second Edition ties together potential applications such as those of nanostructures with dynamic-combinatorial-adaptive self-healing features, opto-electronic devices, supramolecular amphiphiles, hydrogels, organic/inorganic nanocomposites, molecular biosensors, molecular imprinting, molecular engines, templates for superlattices with prescribed symmetry. Several chapters of the first edition have been updated or rewritten, and an equal number of new chapters have been added. More than 500 drawings, photographs, micrographs, equations, and tables enhance and reinforce essential concepts presented in the book. Authored by an expert in polymer mechanics, biopolymers, liquid crystals, and supramolecular assemblies, Supramolecular Polymers, Second Edition emphasizes fundamental principles at the basis of bottom-up nanotechnology, chemical design strategies, and exciting applications for various self-assembling materials for a unified and cutting-edge account of the field.

In 1992 a Concerted Action Programme (CAP) was initiated by Peter Sijmons with the purpose of intensifying collaborations between 16 European laboratories working on plant-parasitic nematodes. The four-year programme entitled Resistance Mechanisms Against Plant-Parasitic Nematodes focused on molecular aspects of the interaction between sedentary nematodes and plants on the model system Arabidopsis and on novel resistance strategies. Funding was provided mainly for exchange visits between collaborating laboratories and for the organization of annual meetings. During the last annual meeting which was held in May 1996 in Toledo, Spain, Carmen Fenoll initiated the production of this volume.

Pediatric Hydrocephalus

Supramolecular Polymers, Second Edition

Cardiovascular Regulation

The Science and Practice of Complementary and Alternative Medicine in Pain Management

Journal of the Physical Society of Japan

Scientific Basis

"This book collects together White Papers that have been written to describe the state of the science and to discuss the major challenges for making further advances. The authors of each chapter have attempted to draw together key aspects of the science that was presented at WWOSC-2014. The overarching theme of this book and of WWOSC-2014 is 'Seamless Prediction of the Earth System: from minutes to months'. The book is structured with chapters that address topics regarding: Observations and Data Assimilation; Predictability and Processes; Numerical Prediction of the Earth System; Weather-related Hazards and Impacts. This book marks a point in time and the knowledge that has been accumulating on weather science. It aims to point the way to future developments"--Preface.

Visualization and analysis tools, techniques, and algorithms have undergone a rapid evolution in recent decades to accommodate explosive growth in data size and complexity and to exploit emerging multi- and many-core computational platforms. High Performance Visualization: Enabling Extreme-Scale Scientific Insight focuses on the subset of scientific visualization concerned with algorithm design, implementation, and optimization for use on today's largest computational platforms. The book collects some of the most seminal work in the field, including algorithms and implementations running at the highest levels of concurrency and used by scientific researchers worldwide. After introducing the fundamental concepts of parallel visualization, the book explores approaches to accelerate visualization and analysis operations on high performance computing platforms. Looking to the future and anticipating changes to computational platforms in the transition from the petascale to exascale regime, it presents the main research challenges and describes several contemporary, high performance visualization implementations. Reflecting major concepts in high performance visualization, this book unifies a large and diverse body of computer science research, development, and practical applications. It describes the state of the art at the intersection of scientific visualization, large data, and high performance computing trends, giving readers the foundation to apply the concepts and carry out future research

in this area.

In the last ten years the pediatric neurosurgeon has witnessed a real revolution in the diagnosis and treatment of pediatric hydrocephalus, the most frequently encountered condition in everyday clinical practice. The evolution of MRI and the advent of neuroendoscopic surgery have resuscitated the interest in the classification, etiology and pathophysiology of hydrocephalus. The book offers an updated overview on the recent progress in this field, and a new approach to hydrocephalus: the reader will find in it a modern and new presentation of an old disease, where genetics, endoscopy, cost-effectiveness analyses and many other aspects of the various therapies are extensively discussed. The volume will be useful not only for neurosurgeons, but for all specialists interested in the various aspects of hydrocephalus: pediatricians, radiologists, endocrinologists, pathologists and geneticists.

Metrology and Diagnostic Techniques for Nanoelectronics

Advanced 3D-Printed Systems and Nanosystems for Drug Delivery and Tissue Engineering

Diagnostic and Interventional Radiology in Liver Transplantation

Physics and Astrophysics of Neutrinos