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□□□□□2021 Energy Research Abstracts Cumulated Index Medicus □□□□□2022-2023 CCN Proteins Index Medicus Integration with the Spectral Vorticity Equation Lindhe's Clinical Periodontology and Implant Dentistry FDG-PET/CT and PET/MR in Cardiovascular Diseases Tissue Engineering for Therapeutics Use 5 Regenerative Endodontics, An Issue of Dental Clinics - E-Book Clinical Periodontology and Implant Dentistry, 2 Volume Set Biopolymer Methods in Tissue Engineering Induction of Bone Formation in Primates Muller's Imaging of the Chest E-Book Systemic Fibroinflammatory Disorders Clinical Maxillary Sinus Elevation Surgery Nuclear Medicine in Tropical and Infectious Diseases Advances in Organometallic Chemistry Physiology Past, Present and Future Contemporary Management of Temporomandibular Disorders High Energy Materials Gap Junctions in the Brain Ultra-Realistic Imaging Tissue Engineering and Regeneration in Dentistry Plant Tissue Culture Engineering Image Reconstruction for a Positron Emission Tomograph Optimized for Breast Cancer Imaging Official Specifications & Data Guide Neuropsychiatric Disorders and Epigenetics Annual Report Particles And The Universe: Proceedings Of The 12th Lake Winter Institute Monthly Weather Review The Bulletin of Tokyo Medical and Dental University Physics Briefs Brain Sense Bioelectrochemistry Bibliography of the History of Medicine JPRS Report Biosurfactants Zinc-Air Batteries

Official Specifications & Data Guide Jan 12 2021

FDG-PET/CT and PET/MR in Cardiovascular Diseases Aug 31 2022 This book is a clinically oriented, up-to-date, and in-depth review of the various applications of FDG-PET/CT and PET/MR in cardiovascular diseases with emphasis on the current available evidence. Positron emission tomography (PET) imaging with fluorodeoxyglucose (FDG) has seen increased applications in cardiovascular diseases over the last decades. Its utility is already established in a wide range of conditions, including myocardial viability imaging, assessment of inflammatory diseases such as sarcoidosis and vasculitis, as well as imaging of infectious processes, such as infective endocarditis and cardiac implantable electronic device infection. In addition, there are several emerging indications such as the imaging of left ventricular assisting device infection and native valve endocarditis as well as new applications under investigation. The first section of the book reviews the technical basis of cardiovascular PET/CT and PET/MR imaging as well as cardiac metabolism. The following chapters each present specific pathologies, presenting epidemiology, pathophysiology, and diagnostic strategies, along with high quality clinical cases to support the discussion. The final chapter is a review of 15 interesting and clinically relevant cases. This is an ideal guide for nuclear medicine physicians, cardiologists, radiologists, residents, post-graduate fellows, and technologists.

Integration with the Spectral Vorticity Equation Nov 02 2022

Ultra-Realistic Imaging May 16 2021 Ultra-high resolution holograms are now finding commercial and industrial applications in such areas as holographic maps, 3D medical imaging, and consumer devices. Ultra-Realistic Imaging: Advanced Techniques in Analogue and Digital Colour Holography brings together a comprehensive discussion of key methods that enable holography to be used as a technique of ultra-realistic imaging. After a historical review of progress in holography, the book: Discusses CW recording lasers, pulsed holography lasers, and reviews optical designs for many of the principal laser types with emphasis on

attaining the parameters necessary for digital and analogue holography Gives a full review of current photosensitive materials for colour holography Covers modern methods of analogue holography and digital holographic printing Introduces mathematical and geometrical notation for horizontal parallax-only holograms and practical computational algorithms for the full-parallax case Reviews systems and the image processing algorithms required to convert the raw image data to the format required by digital printers Develops the physical theory of the holographic grating and the hologram Provides an up-to-date review of illumination sources, including LED and laser diode sources Written by leaders in dynamic holography, this handbook provides complete coverage of real-time colour holographic processes, including applications. The book covers not only the optics and theory behind such holographic systems, but also laser technologies, recording devices, data acquisition and processing techniques, materials for reproduction, and current and developing applications.

Muller's Imaging of the Chest E-Book Feb 22 2022 Reflecting recent major advances in the field, Müller's Imaging of the Chest, 2nd Edition, by Drs. Christopher M. Walker and Jonathan H. Chung, remains your go-to reference for all aspects of chest radiology, including the latest diagnostic modalities and interventional techniques. This exhaustive resource begins with a review of normal anatomy, progressing to expert coverage based first on how patients present in clinical practice, then on diagnosis or diagnostic category. This practical, easy-to-use format helps you effectively select and interpret the best imaging studies for the everyday challenges you face in thoracic imaging. Provides extensive new information on lung cancer screening, detailing the technique required to perform a lung cancer screening CT as well as how to interpret these examinations using ACR Lung-RADS. Contains four all-new chapters: Idiopathic pleuroparenchymal fibroelastosis, Interstitial pneumonia with autoimmune features, Non-infectious complications of lung and stem cell transplantation, and Leukemia. Updates you on recent advances regarding interstitial lung disease diagnosis, diffuse idiopathic pulmonary neuroendocrine cell hyperplasia (DIPNECH), interstitial pneumonia with autoimmune features (IPAF), pleuroparenchymal fibroelastosis, and much more. Explains the recent CT classification in usual interstitial pneumonia/idiopathic pulmonary fibrosis (UIP/IPF) diagnosis and what features are required to correctly categorize a CT into one of four specific patterns. Covers current topics such as bacterial, viral, fungal, and parasitic infections, and new staging and histologic classifications for various lung neoplasms including lung cancer and mesothelioma. Features more than 3,100 superior, large digital-quality images (many in full color) depicting all of the chest imaging findings you're likely to see, and helping you distinguish between conditions with similar manifestations. Provides boxes highlighting key points to assist you with report writing, as well as suggestions for treatment and future imaging studies. Features a full-color design throughout, color-coded tables, classic signs boxes, and bulleted lists that highlight key concepts and get you to the information you need quickly.

Clinical Maxillary Sinus Elevation Surgery Dec 23 2021 Maxillary sinus elevation, followed by placement of a wide variety of grafting materials, has been the generally accepted surgical protocol for the development of bone in the sinus cavity. Over the years, various techniques have been proposed for maxillary sinus elevation, which differ in surgical approach, bone graft materials, and advanced technology application for hard tissue and soft tissue management. Dr. Kao and a team of experts begin by discussing anatomy, radiographic image applications and limitations, and then provide step-by-step clinical procedures for the lateral window technique, including piezosurgery, and the trans-alveolar methods, including balloon and controlled hydrostatic sinus elevation. Also included are chapters on post-operative care and complication management.

Monthly Weather Review Sep 07 2020

Tissue Engineering for Therapeutics Use 5 Jul 30 2022 This publication is the fifth proceedings volume in a series of Symposia on Tissue Engineering for Therapeutic Use, sponsored by the Japan Society for Promotion of Science (JSPS). The previous four volumes have all been published as part of the ICS series. Since the publication of the first volume, great strides have been made in the study of tissue engineering, such as the announcement by two US research groups on the success of isolation and identification of human ES and EG cells. This interdisciplinary volume presents the latest state-of-the-art in tissue engineering, such as cell sheet engineering and the use of bioartificial organs. It also includes an update on the advances made in the Tissue Engineering Project for the Research for the Future Program.

Particles And The Universe: Proceedings Of The 12th Lake Winter Institute Oct 09 2020 This volume addresses the important questions at the interface of particle physics, cosmology and nuclear astrophysics. It includes the latest results from LEP 2, primordial nucleosynthesis and dark matter, experiments to measure the cosmic background radiation and experiments in the laboratory with radioactive beams to ascertain the importance of astrophysics in the universe. Also presented are the new results at highest momentum transfer in positron-proton collisions from HERA.

Bioelectrochemistry May 04 2020 Bioelectrochemistry: Fundamentals, Experimental Techniques and Application, covers the fundamental aspects of the chemistry, physics and biology which underlie this subject area. It describes some of the different experimental techniques that can be used to study bioelectrochemical problems and it describes various applications of bioelectrochemistry including amperometric biosensors, immunoassays, electrochemistry of DNA, biofuel cells, whole cell biosensors, in vivo applications and bioelectrosynthesis. By bringing together these different aspects, this work provides a unique source of information in this area, approaching the subject from a cross-disciplinary viewpoint.

Neuropsychiatric Disorders and Epigenetics Dec 11 2020 Neuropsychiatric Disorders and Epigenetics is a comprehensive reference for the epigenetic basis of most common neuropsychiatric disorders. The volume is organized into chapters representing individual neuropsychiatric disorders, from addition to obesity contributed by leading experts in their respective fields. The epigenetic aspects of each disorder are discussed, in the context of the full range of epigenetic mechanisms including DNA modification, histone post-translational modification, chromatin organization and non-coding RNA. A particular emphasis is placed on potential epigenetic interventions, when the effects of environmental stimuli on epigenetic states is particularly relevant to disease. Recent discoveries in epigenetic research enabled by epic advances in genomic technologies have positioned the field for broad translation to therapeutic interventions for previously unmanageable disorders Neuropsychiatric disorders represent a prime target of epigenetic interventions as they are highly debilitating, often chronic diseases with enormous costs to society. Thus, this volume will help define epigenetics as a key player in neuropsychiatric disorders, highlighting the full spectrum of epigenetic mechanisms underlying such disorders and introducing the vast range of epigenetic therapies under development. Analyzes the effects of environmental stimuli on epigenetic states that correlate with neuropsychiatric disease induction Reviews the epigenetic basis for common neuropsychiatric disorders, thereby guiding translational therapies for clinicians and mechanistic studies for scientists Extensive use of diagrams, illustrations, tables, and graphical abstracts for each section providing rapid assessment

Physics Briefs Jul 06 2020

JPRS Report Mar 02 2020

Annual Report Nov 09 2020

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Induction of Bone Formation in Primates Mar 26 2022 The effects of the bone morphogenetic proteins (BMPs) family on bone formation are well documented, but the transforming growth factor (TGF)-beta (β) isoforms are much less studied. The product of 20 years of study, *Induction of Bone Formation in Primates: The Transforming Growth Factor- β 3* sums up editor Ugo Ripamonti's research into the osteogenic activity of the three mammalian TGF- β isoforms, particularly in primates. It explores how the mammalian TGF- β isoforms have the potential to shed light on the apparent redundancy of bone induction signaling. The book unearths the profound and important bone inductive activity of the TGF- β 3 isoform. It includes accounts of extensive research in non-human primates from craniofacial tissue regeneration, heterotopic tissue induction, and chapters on periodontal tissue regeneration and synergistic induction of bone formation. It also discusses the future clinical role of the TGF- β isoform, including in human studies. This book contributes to the fascinating history of BMP and TGF- β research at the intersection of molecular biology, tissue induction, bone regeneration, and craniofacial surgery. It provides a revolutionary awakening to new possibilities in skeletal reconstruction, tissue engineering, and molecular and cellular biology.

Brain Sense Jun 04 2020 Provides information on the five senses and how the brain processes sensory information.

Tissue Engineering and Regeneration in Dentistry Apr 14 2021 *Tissue Engineering and Regeneration in Dentistry: Current Strategies* presents a thorough update on the current advances, methods and understanding in tissue engineering in dentistry. It offers invaluable tools, case studies, and methodologies for undertaking research, including important biological and practical considerations to facilitate successful migration of research from the bench to the clinic. Offers detailed coverage of the basic underlying principles and scientific evidence, and includes protocols to highlight practical applications Written by an internationally renowned team of expert contributors A must-have read for researchers and specialist clinicians in tissue engineering, oral biology, dental materials science, periodontology and oral surgery

Advances in Organometallic Chemistry Oct 21 2021 *Advances in Organometallic Chemistry*

Bibliography of the History of Medicine Apr 02 2020

Energy Research Abstracts Apr 07 2023

Nuclear Medicine in Tropical and Infectious Diseases Nov 21 2021 "More than half of the world's population is at risk of the tropical diseases malaria, leprosy, schistosomiasis, lymphatic filariasis, onchocerciasis, Chagas' disease, African trypanosomiasis and leishmaniasis and half a billion are infected with at least one of these diseases". J. H. F. Remme, World Health Organisation, 1993. "If it is true that science is not limited by frontiers and all research Institutions then belong to mankind, so it is natural for each Institution to be responsible for the problems of those who live in the geographic area under its influence. There are no specific aspects concerning physical, chemical or philosophical concepts and facts,

but specificity does exist concerning geology, sociology and pathology. It is the duty of each Institution to study the particular aspects concerning its geographic region, as missing links of the chain of universal knowledge may be found there." H. L. de Oliveira, former Rector of the University of São Paulo, 1967. "Nuclear Medicine is cost effective, especially in the developing countries. (...).

Gap Junctions in the Brain Jun 16 2021 Gap junctions between glial cells or neurons are ubiquitously expressed in the mammalian brain and play a role in brain development including cell differentiation, cell migration and survival, and tissue homeostasis, as well as in human diseases including hearing loss, neuropathies, epilepsy, brain trauma, and cardiovascular disease. This volume provides neuroscience researchers and students with a single source for information covering the physiological, behavioral and pathophysiological roles of gap junctions in the brain. In addition, the book also discusses human disease conditions associated with mutations in single gap junction connexin genes, making it applicable to clinicians doing translational research. Finally, it includes reviews of pharmacological studies with gap junction blockers and openers, summarizing information obtained from phenotyping gap junction mouse mutants. Serves as the most current and comprehensive reference available covering the physiological, behavioral and pathophysiological roles of gap junctions in the brain Chapters summarize knowledge of the basic physiology of gap junctions in the brain, as well as of human disease conditions associated with mutations in single gap junction connexin genes Includes reviews of pharmacological studies with gap junction blockers and openers, summarizing information obtained from phenotyping gap junction mouse mutants

Systemic Fibroinflammatory Disorders Jan 24 2022 This book provides detailed information on the nosology, pathology, pathogenesis, clinical presentation, diagnosis and treatment of fibro-inflammatory disorders, rare diseases that often display systemic organ involvement. Among the conditions considered are IgG4-related disease, sclerosing cholangitis, Hashimoto's and Riedel's thyroiditis, retroperitoneal fibrosis/chronic periaortitis, mediastinal fibrosis, Erdheim-Chester disease, gadolinium-induced fibrosis, and sclerosing mesenteritis. This group of entities is still poorly defined and is characterized by the common denominator of chronic inflammatory infiltrate admixed with abundant fibrosis. IgG4-related disease is the prototypical example. Systemic Fibroinflammatory Disorders is the first book to draw together information on these conditions. As these diseases often require an interdisciplinary approach, the book is addressed to specialists of different disciplines, especially internists, rheumatologists, nephrologists, clinical immunologists, and hematologists.

Biosurfactants Jan 30 2020 Stresses the Potential Applications of Biosurfactants in Various Industries Environmental concerns and a demand for sustainable chemical production have become important issues in recent years. As a result, microbial biosurfactant-producing systems are gaining momentum as potential replacements for chemical surfactants. Biosurfactants: Production and Utilization—Processes, Technologies, and Economics explores the production, utilization, and industrial/economic use of biosurfactants in modern biotechnology. This book represents comprehensive material developed by contemporary experts in the field. Focusing on research and developments within the last 20 years, it highlights relevant changes in the industry. It provides a detailed account of the current applications of biosurfactants, considers the potential for further environmental, biological, and industrial applications, and concentrates on surfactants and organisms with possibilities for future use. Emphasizes Process Scale-Up and Commercialization Factoring in the industrial application of biosurfactant production based on renewable resources, the book determines how biosurfactants can enhance or replace the properties of chemically synthesized surface-active agents. It discusses moving beyond the laboratory scale of research and development and on

to the industrial scale of commercial interest. The book consists of 17 chapters and features expert authors discussing topics that include: Understanding the regulatory processes controlling the production of biosurfactants Strategies for feasible commercial biosurfactant production Examples of cost analysis based on published information The viability of industrial applications in food, cosmetics, and pharmaceuticals Patents for future trends Biosurfactants: Production and Utilization—Processes, Technologies, and Economics contains special sections devoted to the overview and evaluation of specific patents relating to biosurfactants, and methods for production of biosurfactants on a laboratory and industrial/commercial scale. It also presents novel and proven applications for biosurfactants from a number of biotechnology laboratories and research facilities around the world. In addition, it introduces the reader to a variety of real-world industry techniques readily applicable for practical use.

Index Medicus Dec 03 2022

Plant Tissue Culture Engineering Mar 14 2021 It is my privilege to contribute the foreword for this unique volume entitled: "Plant Tissue Culture Engineering," edited by S. Dutta Gupta and Y. Ibaraki. While there have been a number of volumes published regarding the basic methods and applications of plant tissue and cell culture technologies, and even considerable attention provided to bioreactor design, relatively little attention has been afforded to the engineering principles that have emerged as critical contributions to the commercial applications of plant biotechnologies. This volume, "Plant Tissue Culture Engineering," signals a turning point: the recognition that this specialized field of plant science must be integrated with engineering principles in order to develop efficient, cost effective, and large scale applications of these technologies. I am most impressed with the organization of this volume, and the extensive list of chapters contributed by expert authors from around the world who are leading the emergence of this interdisciplinary enterprise. The editors are to be commended for their skilful crafting of this important volume. The first two parts provide the basic information that is relevant to the field as a whole, the following two parts elaborate on these principles, and the last part elaborates on specific technologies or applications.

The Bulletin of Tokyo Medical and Dental University Aug 07 2020

Zinc-Air Batteries Dec 31 2019 This book aims to discuss the cutting-edge materials and technologies for zinc-air batteries. From the perspective of basic research and engineering application, the principle innovation, research progress, and technical breakthrough of key materials such as positive and negative electrodes, electrolytes, and separators of zinc-air batteries are discussed systematically, which can be used to guide and promote the development of zinc-air battery technology. We do believe that our experiences and in-depth discussions would make this book useful for researchers at all levels in the energy area and provide them with a quick way of understanding the development of zinc-air batteries.

Biopolymer Methods in Tissue Engineering Apr 26 2022 There is an urgent need to develop new approaches to treat conditions associated with the aging global population. The surgeon's approach to many of these problems could be described as having evolved through three stages: Removal: Traditionally, diseased or badly damaged tissues and structures might simply be removed. This was appropriate for limbs and non-essential organs, but could not be applied to structures that were critical to sustain life. An additional problem was the creation of disability or physical deformity that in turn could lead to further complications. Replacement: In an effort to treat wider clinical problems, or to overcome the limitations of amputation, surgeons turned to the use of implanted materials and medical devices that could replace the functions of biological structures. This field developed rapidly in the 1960s and 1970s, with heart valve and total joint replacement

becoming common. The term “biomaterial” was used increasingly to describe the materials used in these operations, and the study of biomaterials became one of the first truly interdisciplinary research fields. Today, biomaterials are employed in many millions of clinical procedures each year and they have become the mainstay of a very successful industry.

Regenerative Endodontics, An Issue of Dental Clinics - E-Book Jun 28 2022

Regenerative endodontics is the generation and replacement of diseased, damaged or absent pulp. This issue of Dental Clinics of North America provides a clinical view of regenerative endodontics and its aims, methods and techniques.

Contemporary Management of Temporomandibular Disorders Aug 19 2021 This book is a comprehensive, state of the art guide to the contemporary diagnosis of temporomandibular disorders (TMDs) that will help to compensate for the frequent lack of experience and inadequate training among health professionals who encounter patients with jaw joint problems. The opening section describes the whole patient philosophy essential for treatment success, examines ethical and legal considerations, and discusses all aspects of anatomy. Pathophysiology, clinical assessment, and imaging evaluation, including by means of modern MR imaging and CBCT, are then considered in detail. Finally, the diagnostic criteria for the full range of TMDs are thoroughly explained and the urgent need to appreciate temporomandibular disorders as the chronic pain conditions they are is addressed. Complementary volumes are devoted to non-surgical treatment of TMDs and to total temporomandibular joint replacement and other surgical procedures, respectively. Each book will be of high value for the multidisciplinary team necessary for successful management of TMDs, including dentists, surgeons, primary care doctors, pain doctors, and allied health professionals.

Image Reconstruction for a Positron Emission Tomograph Optimized for Breast Cancer Imaging Feb 10 2021

Physiology Past, Present and Future Sep 19 2021 Physiology: Past, Present and Future documents the proceedings of a symposium in honor of Yngve Zotterman held in the Department of Physiology, Medical School, University of Bristol on 11-12 July 1979. The idea for the symposium was spurred by the knowledge that Yngve would reach the age of 80 in September 1978 and the belief that he would welcome a meeting to celebrate his great age and achievement, in the company of some of his distinguished friends and collaborators. The symposium discussed advances in several branches of physiology. These include studies on C-fiber afferents in the viscera, skin, and deeper somatic tissues; touch and pain; tactile paths in the nervous systems of mammals; jaw reflexes evoked from the cerebral cortex; thermoreception; and temperature sensitivity of humans and monkeys. Also included are papers on taste cell transduction; how the sense of taste controls appetitive and instrumental behavior; and structural changes in the excitable membrane during excitation. The book concludes with a discussion on future trends, which begins with some challenging remarks by Yngve Zotterman. These remarks are then taken up and developed by the speakers.

Cumulated Index Medicus Mar 06 2023

CCN Proteins Jan 04 2023 This second edition volume expands on the previous edition with updated methodologies and practical tips to overcome obstacles associated with experimentation pertaining to chemistry, biology, physiology, pathology, medical and dental sciences, and pharmacology of CCN proteins. The chapters in this book cover topics such as CCN4 immunofluorescence for tissue microarray; utilizing public molecular biological databases for CCN family research; the effects of CCN4 on pancreatic beta cell proliferation; gene expression analysis of CCNs; novel cell biological assays for measuring bone remodeling activities of CCN proteins; and the function of CCN2 in tubular epithelium cells with a focus on renal fibrogenesis. 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 laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and comprehensive, *CCN Proteins: Methods and Protocols*, Second Edition is a valuable resource for experienced CCN researchers looking for new approaches and novice researchers just starting out in the field of CCN research.

Lindhe's Clinical Periodontology and Implant Dentistry Oct 01 2022 Discover the latest edition of the cornerstone reference on periodontology and implant dentistry that combines scholarship and science with practical clinical instruction The Seventh Edition of Lindhe's Clinical Periodontology and Implant Dentistry brings together a distinguished team of periodontal specialists and academics who deliver another must-have resource for students, researchers, and practitioners specializing in periodontal care and implant dentistry. Seamlessly integrating the foundational science behind periodontology with practical clinical protocols in two comprehensive volumes, the chapters cover anatomy, microbiology, occlusion trauma, pathology, tissue regeneration, treatment planning protocols, infection control, reconstructive therapy, occlusal and prosthetic therapy, and more. The Seventh Edition of Lindhe's Clinical Periodontology and Implant Dentistry: Provides an introduction to anatomy, including periodontal tissues, the edentulous ridge, the mucosa at teeth and implants, and osseointegration Discusses the epidemiology of periodontal and peri-implant diseases Explores the microbiology, including dental biofilms and calculus, periodontal infections, peri-implant infections, the pathogenesis of gingivitis and periodontitis, and the genetic susceptibility to periodontal disease Includes the latest perio- and peri-implant disease classifications Contains updated evidence-based preventive and treatment modalities for the treatment of periodontal and peri-implant diseases Features the latest evidence-based therapeutic alternatives on the use of dental implants to rehabilitate the lost dentition Perfect for postgraduate dental students, researchers, and practitioners specializing in periodontal care and implant dentistry, Lindhe's Clinical Periodontology and Implant Dentistry continues to be the cornerstone reference work on periodontology.

Clinical Periodontology and Implant Dentistry, 2 Volume Set May 28 2022 Now in its sixth edition, *Clinical Periodontology and Implant Dentistry* is the must-have resource for practitioners specialising in periodontal care and implant dentistry. The chapters have been extensively revised with 40% of the content new to this edition. Maintaining the widely praised two-volume format introduced in the previous edition, the editorial team has once again brought together the world's top international specialists to share their expertise on all aspects of periodontology, periodontal health and the use of implants in the rehabilitation of the periodontally compromised patient. Seamlessly integrating foundational science, practical clinical protocols, and recent advances in the field, *Clinical Periodontology and Implant Dentistry*, Sixth Edition enhances its stellar reputation as the cornerstone reference work on periodontology.

High Energy Materials Jul 18 2021 Authored by an insider with over 40 years of high energy materials (HEMs) experience in academia, industry and defense organizations, this handbook and ready reference covers all important HEMs from the 1950s to the present with their respective properties and intended purposes. Written at an attainable level for professionals, engineers and technicians alike, the book provides a comprehensive view of the current status and suggests further directions for research and development. An introductory chapter on the chemical and thermodynamic basics allows the reader to become acquainted with the fundamental features of explosives, before moving on to the important safety aspects in processing, handling, transportation and storage of high energy materials. With its collation of results and formulation strategies hitherto scattered in the literature, this should be on the shelf of every HEM researcher

and developer.

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