

Dental Material Subbarao

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Biocompatibility of Dental Materials - Gottfried Schmalz 2008-10-10

This book provides a comprehensive and scientifically based overview of the biocompatibility of dental materials. Up-to-date concepts of biocompatibility assessment are presented, as well as information on almost all material groups used in daily dentistry practice. Furthermore, special topics of clinical relevance (e.g., environmental and occupational hazards and the diagnosis of adverse effects) are covered. The book will: improve the reader's ability to critically analyze information provided by manufacturers supply a better understanding of the biocompatibility of single material groups, which will help the reader choose the most appropriate materials for any given patient and thus prevent adverse effects from developing provide insights on how to conduct objective, matter-of-fact discussions with patients about the materials to be used in dental procedures advise readers, through the use of well-documented concepts, on how to treat patients who claim adverse effects from dental materials feature clinical photographs that will serve as a reference when analyzing clinical symptoms, such as oral mucosa reactions.

Dental Materials - V. K. Subbarao 2007

Dental Implantology and Biomaterial - Mazen Ahmad Almasri 2016-08-17

The discipline of dental implantology is one of the scientific medical/dental fields that are moving dynamically very fast. Not to mention the multiple specialties involved in managing the service as well as the research production. As much as it is necessary to have books to review the basics of bone healing, cellular biology, and

implant rehabilitation planning, it is very critical to have more focused books to link the dots and elevate the benchmark of success even higher, especially when facing the reality of more advanced case challenges nowadays. "Dental Implantology and Biomaterial" presents four main sections covering topics of clinically applied "tips and tricks", the reality of transmucosal implant surface, the future of ceramic implants, the revolution of implant surface treatment, and finally the application of nonautogenous graft in the treatment process. The aim is updating the practitioners, researchers, and postgraduate trainees in the field with up-to-date clinically applied topics focused on reducing the gap between research and clinical application. Doing so will not only optimize the practice but also advance it with evidence-based maneuvers and technical details. *Novel Advances and Approaches in Biomedical Materials Based on Calcium Phosphates* - Michael R. Mucalo 2020-12-15

Research into the use of calcium phosphates in the development and clinical application of biomedical materials has been a significantly diverse activity conducted by a wide range of scientists, engineers, and medical practitioners, among others. The field of research in this area can, hence, be truly defined as interdisciplinary, and much interesting work leading to imaginative and innovative solutions for the improvement of health outcomes continues to be generated. It has been the intention of this Special Issue to summarise a number of current topical research advances in this area, as well as to review the important area of calcium phosphate-based biomaterials, namely, composites of hydroxyapatite with carbon-based

materials. The scientific papers contained in this Special Issue report on advances in the areas of dental-based materials science, bone cements, use of biomaterials created from natural sources, influences of added agents such as adipose stem cells and statins on bioactivity as well as surface influences on electrical potential of biomaterials and uses of glow discharge methods to remove impurities from biomaterial surfaces.

Materials Used in Dentistry - S. Mahalaxmi
2020-04-01

The fully revised and updated second edition of "Materials Used in Dentistry" discusses all the relevant topics, properties, and clinical applications of the most common dental materials in simple, concise, and coherent manner. It includes numerous photographs, illustrations, flowcharts, and tables to make the presentation simple and student friendly.

Essentials of Pharmacology For Dentistry -
KD Tripathi 2011-06-20

Dental Materials Science - Rama Krishna Alla
2013-01-30

Textbook of Operative Dentistry - Nisha Garg
2010-08

This new edition is a complete guide to operative dentistry. Beginning with an introduction, physiology, dental caries and tooth preparation, the text also discusses pain and infection control. The following sections examine different operative procedures. New techniques such as minimal intervention dentistry, nanotechnology and lasers; and advances in dental materials are discussed in detail. More than 1200 colour images, illustrations, flow charts and tables are included. Key points Complete guide to operative dentistry Discusses numerous different procedures, and pain and infection control New techniques and advances in materials described in detail More than 1200 colour images, illustrations, flow charts and tables Previous edition published in 2010

Textbook of Biochemistry for Dental Students - DM Vasudevan 2011-11

The Crevicular Fluid - G. Cimasoni 1974

Cone Beam Computed Tomography in

Endodontics - Shanon Patel 2019-09-16

In recent years, cone beam computed tomography (CBCT) has become much more widely available and utilised in all aspects of dentistry, including endodontics. Cone Beam Computed Tomography in Endodontics is designed to inform readers about the appropriate use of CBCT in endodontics, and enhance their clinical practice with this exciting imaging modality.

Practical Procedures in Aesthetic Dentistry -
Subir Banerji 2017-03-20

Practical Procedures in Aesthetic Dentistry presents a comprehensive collection of videos demonstrating clinical techniques in aesthetic and restorative dentistry, and is accompanied by a handbook summarising the key points of each procedure. Interactive website hosting over nine hours of video Accompanying illustrated handbook summarising key points Expert teaching across a comprehensive range of aesthetic and restorative procedures International team of contributors with clinical and academic expertise

Notes on Dental Materials - V. K. Subbarao
2000

Introduction to Dental Materials - E-Book -
Richard Van Noort 2014-04-24

This textbook considers the properties and applications of dental materials and includes all the necessary basic science and clinical applications. Virtually all procedures in restorative dentistry make use of a dental material. Among these materials are metals, ceramics, polymers and composites, and their uses include filling of cavities and root canals and the making of impressions or replicas of teeth and tissues prior to the construction of crowns, bridges and dentures. All dental students need to acquire a working knowledge of both the properties and applications of the materials which they will use. Written in an accessible friendly style which provides core information only - perfect for the busy dental student! Rich with pull-out boxes, tables, line artworks and photographs Describes the structure of materials with chapters on atomic bonding, metals, ceramics and polymers Explores the use of clinical dental materials including resin bonding to enamel and dentine

and impression materials Describes the use of laboratory and related dental materials used in the construction of fixed and removable prostheses Contains everything that students need for BDS and equivalent exams! Includes new section on dental implant materials Completely new self-assessment section helps you get through the exam! Now published in full colour throughout

Dental Management of the Medically

Compromised Patient - James W. Little 1993

Is an up-to-date, concise, factual reference describing the dental management of patients with selected medical problems. The book offers the dental provider an understanding of how to ascertain the severity and stability of common medical disorders, and make dental management decisions that afford the patient the utmost health and safety. Medical problems are organized to provide a brief overview of the basic disease process, the incidence and prevalence of the disease, pathophysiology, signs and symptoms, laboratory findings, currently accepted medical therapy of each problem, and a detailed explanation and recommendations for specific dental management. The accumulation of evidence-based research over the last few years has allowed the authors to include more specific dental management guidelines in the sixth edition.

Dental Materials - John M. Powers 2016-02-01

Get an in-depth understanding of the dental materials and tasks that dental professionals encounter every day with *Dental Materials: Foundations and Applications*, 11th Edition. Trusted for nearly 40 years, Powers and Wataha's text walks readers through the nature, categories, and uses of clinical and laboratory dental materials in use today. Increased coverage of foundational basics and clinical applications and an expanded art program help make complex content easier to grasp. If you're looking to effectively stay on top of the rapidly developing field of dental materials, look no further than this proven text. Comprehensive and cutting-edge content describes the latest materials commonly used in dental practice, including those in esthetics, ceramics, dental implants, and impressions. Approximately 500 illustrations and photographs make it easier to

understand properties and differences in both materials and specific types of products. Review questions provide an excellent study tool with 20 to 30 self-test questions in each chapter. Quick Review boxes summarize the material in each chapter. Note boxes highlight key points and important terminology throughout the text. Key terms are bolded at their initial mention in the text and defined in the glossary. Expert authors are well recognized in the fields of dental materials, oral biomaterials, and restorative dentistry. A logical and consistent format sets up a solid foundation before progressing into discussions of specific materials, moving from the more common and simple applications such as composites to more specialized areas such as polymers and dental implants. Learning objectives in each chapter focus readers' attention on essential information. Supplemental readings in each chapter cite texts and journal articles for further research and study.

Conversion Factors on the inside back cover provides a list of common metric conversions. NEW! Foundations and Applications subtitle emphasizes material basics and clinical applications to mirror the educational emphasis. NEW! More clinical photos and conceptual illustrations help bring often-complex material into context and facilitate comprehension.

Coronavirus Disease - COVID-19 - Nima Rezaei 2021-05-10

In December 2019, the world witnessed the occurrence of a new coronavirus to humanity. The disease spread quickly and became known as a pandemic globally, affecting both society and the health care system, both the elderly and young groups of people, and both the men's and women's groups. It was a universal challenge that immediately caused a surge in scientific research. Be a part of a world rising in fighting against the pandemic, the Coronavirus Disease - COVID-19 was depicted in the early days of the pandemic, but updated by more than 200 scientists and clinicians to include many facets of this new infectious pandemic, including i, characteristics, ecology, and evolution of coronaviruses; ii, epidemiology, genetics, and pathogenesis (immune responses and oxidative stress) of the disease; iii, diagnosis, prognosis, and clinical manifestations of the disease in pediatrics, geriatrics, pregnant women, and

neonates; iv, challenges of co-occurring the disease with tropical infections, cardiovascular diseases, hypertension, and cancer and to the settings of dentistry, hematology, ophthalmology, and pharmacy; v, transmission, prevention, and potential treatments, ranging from supportive ventilator support and nutrition therapy to potential virus- and host-based therapies, immune-based therapies, photobiomodulation, antiviral photodynamic therapy, and vaccines; vi, the resulting consequences on social lives, mental health, education, tourism industry and economy; and vii, multimodal approaches to solve the problem by bioinformatic methods, innovation and ingenuity, globalization, social and scientific networking, interdisciplinary approaches, and art integration. We are approaching December 2020 and the still presence of COVID-19, asking us to call it COVID (without 19).

Algae Based Polymers, Blends, and Composites - Khalid Mahmood Zia 2017-06-19
Algae Based Polymers, Blends, and Composites: Chemistry, Biotechnology and Material Sciences offers considerable detail on the origin of algae, extraction of useful metabolites and major compounds from algal bio-mass, and the production and future prospects of sustainable polymers derived from algae, blends of algae, and algae based composites. Characterization methods and processing techniques for algae-based polymers and composites are discussed in detail, enabling researchers to apply the latest techniques to their own work. The conversion of bio-mass into high value chemicals, energy, and materials has ample financial and ecological importance, particularly in the era of declining petroleum reserves and global warming. Algae are an important source of biomass since they flourish rapidly and can be cultivated almost everywhere. At present the majority of naturally produced algal biomass is an unused resource and normally is left to decompose. Similarly, the use of this enormous underexploited biomass is mainly limited to food consumption and as bio-fertilizer. However, there is an opportunity here for materials scientists to explore its potential as a feedstock for the production of sustainable materials. Provides detailed information on the extraction of useful compounds from algal biomass Highlights the development of a range

of polymers, blends, and composites Includes coverage of characterization and processing techniques, enabling research scientists and engineers to apply the information to their own research and development Discusses potential applications and future prospects of algae-based biopolymers, giving the latest insight into the future of these sustainable materials

Qrs for Bds 2nd Year-E Book - Jyotsna Rao 2020-08-05

Simple well illustrated and lucid in content and style in two-colour format - Perfectly segregated into 6 sections: Dental Materials, General Pathology, Microbiology, Pharmacology; Self-assessment Questions and Previous Years' Question Bank - Latest last 10 year's solved questions - Collection of last 29 year's questions asked in major university examinations across India - Sample question papers on all the subjects

Basic Dental Materials - John J Manappallil 2015-11-30

Basic Dental Materials is the new edition of this extensive guide to materials used in dentistry. The book has been entirely reorganised, with substantial revisions in each chapter incorporating the latest developments and research findings, and new colour illustrations have been added. Basic Dental Materials provides a practical approach to the selection and use of modern dental materials, with guidance on preparation for indirect restorations such as crowns, bridges and inlays. Enhanced by 645 images and illustrations, this comprehensive book will bring the knowledge of dental students and practising students firmly up to date.

Phillips' Science of Dental Materials - E-Book - Kenneth J. Anusavice 2014-03-14

Learn the most up-to-date information on materials used in the dental office and laboratory today. Emphasizing practical, clinical use, as well as the physical, chemical, and biological properties of materials, this leading reference helps you stay current in this very important area of dentistry. This new full-color edition also features an extensive collection of new clinical photographs to better illustrate the topics and concepts discussed in each chapter. Organization of chapters and content into four parts (General Classes and Properties of Dental Materials; Auxiliary Dental Materials; Direct

Restorative Materials; and Indirect Restorative Materials) presents the material in a logical and effective way for better comprehension and readability. Balance between materials science and manipulation bridges the gap of knowledge between dentists and lab technicians. Major emphasis on biocompatibility serves as a useful guide for clinicians and educators on material safety. Distinguished contributor pool lends credibility and experience to each topic discussed. Critical thinking questions appearing in boxes throughout each chapter stimulate thinking and encourage classroom discussion of key concepts and principles. Key terms presented at the beginning of each chapter helps familiarize readers with key terms so you may better comprehend text material. NEW! Full color illustrations and line art throughout the book make text material more clear and vivid. NEW! Chapter on Emerging Technologies keeps you up to date on the latest materials in use. NEW! Larger trim size allows the text to have fewer pages and makes the content easier to read.

Pharmacology for Dentistry - Tara Shanbhag
2014-07-16

This book is written mainly for Undergraduate Dental Students. Its user-friendly format provides knowledge of pharmacology without extraneous details—as needed by BDS students. The book will also be useful for practicing Dentists and Pharmacy students. Meets the requirement of the syllabus proposed by Dental Council of India (DCI) Includes drugs with dose, mechanism of action, pharmacokinetics, adverse effects, drug interactions and therapeutic uses Supplemented with the addition of some new topics like Pharmacovigilance and Drug Dosage Forms Contains important medical emergencies in dental practice and oral side effects of drugs in tabular format Large number of diagrams, flowcharts and tables will facilitate quick learning and greater retention of the concepts Thoroughly updated edition that highlights the important aspects of pharmacology for students pursuing undergraduate courses in Dentistry
Cohen's Pathways of the Pulp Expert Consult - E-Book - Louis H. Berman 2015-09-23

The definitive endodontics reference, Cohen's Pathways of the Pulp is known for its comprehensive coverage of leading-edge

information, materials, and techniques. It examines all aspects of endodontic care, from preparing the clinician and patient for endodontic treatment to the role the endodontist can play in the treatment of traumatic injuries and to the procedures used in the treatment of pediatric and older patients. Not only does Hargreaves and Cohen's 10th edition add five chapters on hot new topics, it also includes online access! As an Expert Consult title, Cohen's Pathways of the Pulp lets you search the entire contents of the book on your computer, and includes five online chapters not available in the printed text, plus videos, a searchable image collection, and more. For evidence-based endodontics research and treatment, this is your one-stop resource!

Fundamental Biomaterials: Metals - Sabu Thomas 2018-07-19

Fundamental Biomaterials: Metals provides current information on the development of metals and their conversion from base materials to medical devices. Chapters analyze the properties of metals and discuss a range of biomedical applications, with a focus on orthopedics. While the book will be of great use to researchers and professionals in the development stages of design for more appropriate target materials, it will also help medical researchers understand, and more effectively communicate, the requirements for a specific application. With the recent introduction of a number of interdisciplinary bio-related undergraduate and graduate programs, this book will be an appropriate reference volume for students. It represents the second volume in a three volume set, each of which reviews the most important and commonly used classes of biomaterials, providing comprehensive information on materials properties, behavior, biocompatibility and applications. Provides current information on metals and their conversion from base materials to medical devices Includes analyses of types of metals, discussion of a range of biomedical applications, and essential information on corrosion, degradation and wear and lifetime prediction of metal biomaterials Explores both theoretical and practical aspects of metals in biomaterials
Nanotechnology in Endodontics - Anil Kishen 2015-03-18

This book provides detailed information on the emerging applications of nanomaterials and nanoparticles within endodontics, highlighting the exciting potential clinical impact of nanotechnology in the field. The range of applications covered is diverse, encompassing drug and gene delivery, tissue engineering, antibacterial strategies, dentin tissue stabilization, dentin pulp regeneration and use in restorative and endodontic materials. Important scientific background information relating to each application is provided, with clear coverage of basic principles. In addition, potential pitfalls are identified and explained. The cytotoxicity of nanomaterials and nanoparticles is also addressed in a separate chapter. The book will be of value both for endodontic practitioners and for all scientists and graduate students who are interested in the application of nanotechnology in endodontics.

Science of Dental Materials - Shama V. Bhat

Sepsis Management in Resource-limited Settings - Arjen M. Dondorp 2019-02-08

This book is open access under a CC BY 4.0 license. It constitutes a unique source of knowledge and guidance for all healthcare workers who care for patients with sepsis and septic shock in resource-limited settings. More than eighty percent of the worldwide deaths related to sepsis occur in resource-limited settings in low and middle-income countries. Current international sepsis guidelines cannot be implemented without adaptations towards these settings, mainly because of the difference in local resources and a different spectrum of infectious diseases causing sepsis. This prompted members of the Global Intensive Care working group of the European Society of Intensive Care Medicine (ESICM) and the Mahidol-Oxford Tropical Medicine Research Unit (MORU, Bangkok, Thailand) - among which the Editors - to develop with an international group of experts a comprehensive set of recommendations for the management of sepsis in resource-limited settings. Recommendations are based on both current scientific evidence and clinical experience of clinicians working in resource-limited settings. The book includes an overview chapter outlining the current challenges and future directions of sepsis

management as well as general recommendations on the structure and organization of intensive care services in resource-limited settings. Specific recommendations on the recognition and management of patients with sepsis and septic shock in these settings are grouped into seven chapters. The book provides evidence-based practical guidance for doctors in low and middle income countries treating patients with sepsis, and highlights areas for further research and discussion.

Textbook of Prosthodontics - Deepak Nallaswamy 2017-09-30

Prosthodontics is the subspecialty of dentistry that deals with the aesthetic restoration and replacement of teeth. The second edition of this textbook has been fully revised and updated to provide undergraduates with the latest advances in the field of prosthodontics. Divided into six sections, each part provides in depth detail on a specific type of prosthesis - complete dentures, removable partial dentures, fixed partial dentures, maxillofacial prosthesis, implants, and dental materials. The section on implants has been completely reorganised with the addition of new chapters, and the section on dental materials is brand new to this edition. The book includes discussion on anatomical landmarks and lab procedures, as well as evidence based clinical practice and operating techniques. More than 3000 clinical photographs, diagrams, concept maps and charts enhance learning and enable quick revision. Key points Fully revised, second edition providing latest advances in prosthodontics Features brand new section on dental materials Highly illustrated with more than 3000 clinical photographs, diagrams and charts Previous edition (9788180611995) published in 2006

Cytotoxicity and Dentinogenic Potential of Nano-Hydroxyapatite-Silica Glass Ionomer Cement - Norhayati Luddin, Hii Siew Ching, Ismail Ab Rahman, Thirumullu Ponnuraj Kannan, Nik Rozainah Nik Abdul Ghani 2021-01-01

Biocompatibility is an essential criteria for a dental material as to ensure safety for the patients before it is placed into the oral cavity. Glass Ionomer Cement (GIC) is one of the most biocompatible dental restorative material and it has been used widely in clinical application.

Nevertheless, conventional GIC has some drawbacks such as poor physical and mechanical properties hence lead to the development of nano-hydroxyapatite-silica (nano-HA-silica) fillers. These filler is added to conventional GIC to increase the material's strength and it has undergone some evaluation in terms of its properties. We introduce this special book to give information regarding this novel material and discuss about its cytotoxicity, cell attachment and dentinogenic differentiation properties in response to Dental Pulp Stem Cells and selected odontogenic gene markers. It is hope that this book will provide new insight about this novel material which has the potential to be an alternative material for use in restorative dentistry.

Essential Pathology for Dental Students -

Harsh Mohan 2016-10-31

Fully revised, new edition presenting students with latest information in dental pathology.

Includes many new illustrations and tables and 'gist boxes' summarise key points of each topic.

Fifth edition includes a free book

(9789386107961) of practical exercises and sample viva voce questions.

Non-Metallic Biomaterials for Tooth Repair and Replacement - P Vallittu 2012-12-11

As the demand for healthy, attractive teeth increases, the methods and materials employed in restorative dentistry have become progressively more advanced. Non-metallic biomaterials for tooth repair and replacement focuses on the use of biomaterials for a range of applications in tooth repair and, in particular, dental restoration. Part one reviews the structure, modification and repair of dental tissues. The properties of enamel and dentin and their role in adhesive dental restoration are discussed, along with biomineralization and biomimicry of tooth enamel, and enamel matrix proteins (EMPs) for periodontal regeneration. Part two goes on to discuss the processing, bonding and wear properties of dental ceramics, glasses and sol-gel derived bioactive glass ceramics for tooth repair and replacement. Dental composites for tooth repair and replacement are then the focus of part three, including composite adhesive and antibacterial restorative materials for dental applications. The effects of particulate filler systems on the

properties and performance of dental polymer composites are considered, along with composite based oral implants, fibre reinforced composites (FRCs) as dental materials and luting cements for dental applications. With its distinguished editor and international team of expert contributors, *Non-metallic biomaterials for tooth repair and replacement* provides a clear overview for all those involved in the development and application of these materials, including academic researchers, materials scientists and dental clinicians. Discusses the properties of enamel and dentin and their role in adhesive dental restoration Chapters also examine the wear properties of dental ceramics, glasses and bioactive glass ceramics for tooth repair and replacement Dental composites and antibacterial restorative materials are also considered

Essentials of Oral & Maxillofacial Radiology

- Freny R Karjodkar 2019-03-31

Dental Biomaterials - Edward Sacher 2018-12-18

The contents of this book touch on the all major dental biomaterials: polymers, composites, ceramics and metals. The first part introduces the readers to the surface physicochemical and mechanical characterizations at the nanoscopic level, and the use of finite element analysis. The second part discusses dental adhesion, resin-based composites, polymerization contraction stress, impression materials and soft liners for total prosthesis. The third part deals with ceramics in restorative dentistry: zirconia and lithium disilicate, the fractography of dental ceramics, as well as bioglass for bone growth. The fourth part discusses the toxicity of mercury in dentistry, and the use of preventive materials for dental diseases. The concluding part identifies imminent techniques for dental biomaterials, such as additive manufacturing (3D printing), and bioprinting in dentistry. *Dental and Periodontal Tissues Formation and Regeneration: Current Approaches and Future Challenges* - Giovanna Orsini 2016-10-07 Sequential and reciprocal interactions between oral epithelial and cranial neural crest-derived mesenchymal cells give rise to the teeth and periodontium. Teeth are vital organs containing a rich number of blood vessels and nerve fibers within the dental pulp and periodontium. Teeth

are composed by unique and specific collagenous (dentin, fibrillar cementum) and non-collagenous (enamel) highly mineralized extracellular matrices. Alveolar bone is another collagenous hard tissue that supports tooth stability and function through its close interaction with the periodontal ligament. Dental hard tissues are often damaged after infection or traumatic injuries that lead to the partial or complete destruction of the functional dental and supportive tissues. Well-established protocols are routinely used in dental clinics for the restoration or replacement of the damaged tooth and alveolar bone areas. Recent progress in the fields of cell biology, tissue engineering, and nanotechnology offers promising opportunities to repair damaged or missing dental tissues. Indeed, pulp and periodontal tissue regeneration is progressing rapidly with the application of stem cells, biodegradable scaffolds, and growth factors. Furthermore, methods that enable partial dental hard tissue repair and regeneration are being evaluated with variable degrees of success. However, these cell-based therapies are still incipient and many issues need to be addressed before any clinical application. The understanding of tooth and periodontal tissues formation would be beneficial for improving regenerative attempts in dental clinics. In the present e-book we have covered the various aspects dealing with dental and periodontal tissues physiology and regeneration in 6 chapters: 1. General principles on the use of stem cells for regenerating craniofacial and dental tissues 2. The roles of nerves, vessels and stem cell niches in tissue regeneration 3. Dental pulp regeneration and mechanisms of various odontoblast functions 4. Dental root and periodontal physiology, pathology and regeneration 5. Physiology and regeneration of the bone using various scaffolds and stem cell populations 6. Physiology, pathology and regeneration of enamel using dental epithelial stem cells

The Root Canal Anatomy in Permanent Dentition - Marco A. Versiani 2018-07-25

This book describes the most commonly methods used for the study of the internal anatomy of teeth and provides a complete review of the literature concerning the current state of research employing contemporary imaging tools

such as micro-CT and CBCT, which offer greater accuracy whether using qualitative or quantitative approaches. In order to facilitate the management of complex anatomic anomalies, specific clinical protocols and valuable practical tips are suggested. In addition, supplementary material consisting in high-quality videos and images of different anatomies obtained using micro-CT technology is made available to the reader. The book was planned and developed in collaboration with an international team comprising world-recognized researchers and experienced clinicians with expertise in the field. It will provide the readers with a thorough understanding of canal morphology and its variations in all groups of teeth, which is a basic prerequisite for the success of endodontic therapy.

Pharmacology for Dental and Allied Health Sciences - Padmaja Udaykumar 2017-03-22

Oral Health Disparities as Determined by Selected Healthy People 2020 Oral Health Objectives for the United States, 2009-2010 - Bruce A. Dye 2012

Esthetic Dentistry in Clinical Practice - Marc Geissberger 2013-07-08

As esthetic dentistry continues to grow in popularity, dentists are offered an opportunity to expand their practices and attract new patients. *Esthetic Dentistry in Clinical Practice* provides dentists with the skills to take advantage of that opportunity. Clearly outlining esthetic procedures, the book enables dentists to treat patients in an efficient and clinically sound manner, bringing esthetic dentistry to everyday practice.

Biological and Pharmaceutical Applications of Nanomaterials - Polina Prokopovich 2015-06-26

Biological and Pharmaceutical Applications of Nanomaterials presents the findings of cutting-edge research activities in the field of nanomaterials, with a particular emphasis on biological and pharmaceutical applications. Divided into four sections—nanomaterials for drug delivery, antimicrobial nanomaterials, nanomaterials in biosensors, and safety of nanomaterials—this book: Covers topics such as stimuli-responsive nanostructured silica

matrixes, gold nanoparticles, and liposomes for targeting drug delivery and dental applications Describes the use of nanocarriers and nanoparticles as cancer and peptide therapeutics, the influence of surface characteristics on microbial adhesion, and the latest developments in antimicrobial nanostructured polymers for medical applications Discusses recent advances in nanodiagnostic techniques for infectious agents, chromogenic biosensors for pathogen detection, electrochemical biosensors for detecting DNA damage and genotoxicity, and molecular imaging with quantum dots including surface modifications by polymers for biosensing applications Featuring contributions from field experts and researchers in industry and academia, *Biological and Pharmaceutical Applications of Nanomaterials* provides state-of-

the-art information on nanomaterials and their use in drug delivery, infection control, and biomedicine.

Handbook of Oral Biomaterials - Jukka Pekka Matinlinna 2014-07-11

The book introduces the latest advances in dental materials and biomaterials science. It contains a comprehensive introduction and covers ceramic, metallic, and polymeric oral biomaterials. The contributing authors are from all over the world and are distinguished in their disciplines. A solid primer for dental students, the book is also highly recommended for students of engineering and basic science who want to gain an insight in contemporary biomaterials science. For medical practitioners, the book offers an invaluable opportunity to learn about the latest steps in dental biomaterials.