

Advanced Ceramics For Dentistry Chapter 2 Teeth

Dag Henrik Bergsjö, Matts Andersson, Rikard Söderberg, Johan Carlson

Advanced Ceramics for Dentistry James Shen, 2013-09-05 The growth of implant and fixed prosthodontics practices in dentistry has created a rapidly increasing demand for advanced ceramics and ceramic processes. Innovations in ceramics and ceramic processes are vital to ensure reliable and affordable dental-restoration solutions with aesthetically pleasing outcomes. The work aims to engage the bioceramics and engineering communities to meet the challenges of modern dental restoration using advanced ceramics. Incorporating fundamental science, advanced engineering concepts, and clinical outcomes, the work is suitable for bioceramicists, ceramics manufacturers, dental clinicians and biologists. - State-of-the-art-coverage encompasses bioresorbable ceramics for bone regeneration and bioactivating surfaces of inert, high-strength ceramics for implantation, keeping research knowledge appropriately updated - Discusses transition from the baseline stable and physically stiff ceramics research into engineering of highly coherent laminate composites for prosthetic crowns and bridges - Showcases current feasible techniques for producing, in cost-effective and materials-saving ways, long-lasting individualized ceramic components with biocompatibility, complexity and high precision

Advanced Ceramics for Dentistry Haifeng Chen, Yihong Liu, 2013-09-05 Teeth are vital organs of vertebrates of which the main function is to bite and chew food into pieces. Human teeth are always an essential concern in appearance and beauty, and they play an important role in everything from word pronunciation to the protection of support organs. The right anatomical shape and arrangement of teeth are the basis for these functions. Each tooth contains three hard calcified tissues, including enamel, dentin, and cementum, and one soft tissue, pulp, which contains blood vessels, nerves, and is connected with the periodontal tissue by a narrow root canal. The development, formation, composition, microstructure, optical and mechanical properties, and common defects of and damages to human teeth are reviewed in this chapter. This knowledge is of importance in restorative dentistry for designing preventive treatments to maintain tissue integrity and to replace damaged tissues with synthetic materials (e.g. ceramics, which mimic the natural appearance and performance of teeth).

Advanced Ceramics for Dentistry Jing Zhao, Xinzhi Wang, 2013-09-05 Tooth defects and missing teeth are common oral diseases that threaten the patient's health, aesthetics, and self-confidence. Prosthodontics is a dental specialty with a long history of providing artificial prostheses to restore or replace the damaged or missing teeth and dentition of patients. Based on type and degree, there are three main categories of tooth damage: tooth defect, partial edentulism, and complete

edentulism. Various prosthetic treatments are available for restoration, and each of them has its specific advantages and limitations. This means that, the patient's oral and general health condition, and the individual's expectation. In that the decision to pursue prosthetic treatment should be made by fully understanding the characteristics of the defects, background knowledge of the characteristics of tooth defects and edentulism are introduced in combination with commonly used prostheses. Despite the fact that there are no omnipotent prostheses, some general guidelines of prostheses selection are given.

Advanced Ceramics for Dentistry Yihong Liu, James Zhijian Shen, 2013-09-05 Fractographic analysis is a useful tool for finding fracture origins that is necessary for improving the reliability of ceramic restorations. The general analysis begins with the determination of fracture patterns and origins. The crack propagation markings found by examination of fracture surfaces allow one to follow crack paths and to trace back to an origin, including fracture mirror, hackle, Wallner line, arrest line, and compression curl. This method is introduced and applied to define the origins of common clinical failures of ceramic dental prostheses. They are classified as several major types, namely, cracking initiated at the margin or at occlusal contacts, and porcelain chipping or delamination. The fracture origin is always found near the spot where the highest tensile stress concentration accumulates, and/or microscopic defects or flaws are located nearby. The fracture of ceramic dental restorations may initiate at micro-defects in the porcelain or ceramic body that are introduced during the materials fabrication process or after clinical adjustment.

Advanced Ceramics for Dentistry Peter Schüpbach, 2013-09-05 Titanium-based dental implants and abutments exhibit excellent biocompatibility and mechanical properties. Both early wound healing and bone formation and soft tissue healing towards abutments are well understood. This chapter elucidates whether ceramic surfaces provide appropriate conditions for soft and hard tissue healing.

Advanced Ceramics for Dentistry Dag Henrik Bergsjö, Matts Andersson, Rikard Söderberg, Johan Carlson, 2013-09-05 In the early 1980s the industrialization of products based on the osseointegration principle discovered by Professor Per-Ingvar Brånemark started. The industrialization system has since gone through digitalization and automation, where now computer-aided design, design, and milling are standard features of a highly flexible production process for customized products. Lab production and central production are two ways of producing dental products. The central production principle offers the potential for better economy of scale and turnover of products, and the local dental lab can offer a higher degree of customization and personal service. Quality of dental products has always been of central importance and continues to grow. New technology and a highly digital treatment process are open for even better quality by the use of production simulations and tolerance analysis in all parts of the manufacturing process.

Advanced Ceramics for Dentistry James Zhijian Shen, Jenny Fäldt, 2013-09-05 Bioactive ceramics are used as bulk, porous

bodies, or surface-active layers on dental implants and as morphogenetically active scaffolds inserted into the jawbone. While the former has been popularly applied as artificial dental roots for recovering the function of lost teeth, the latter are increasingly used for regenerating bone tissue. In both cases, the common fundamental basis is to understand how the new bone is formed on the surfaces of introduced foreign bodies, integrated together with the autologous bone through complex biological processes and cell-materials interactions. Efforts are thus made in this chapter to elucidate the biological origins of those phenomenological terms that have often eluded satisfactory scientific definition on this particular topic of practice-motivated science. Bone-growth mechanisms are discussed together with possible characterization and quantification methods. The role of surface morphology and multi-scale structures in promoting bone growth is emphasized. Based on the state-of-the-art understanding all the way down to molecular, cellular, and genetic levels, bioactive ceramics are categorized and presented in relation to their potential applications in dentistry. The design concept of implants for enhancing early healing and for enabling immediate loading is also discussed.

Advanced Ceramics for Dentistry Belinda Reinhardt, Thomas Beikler, 2013-09-05 Titanium and titanium alloys are considered standard materials for dental implants with very well documented, high rates of success and survival. Potential immunologic and aesthetic drawbacks associated with titanium implants have resulted in the development of alternatives like zirconia-based dental implants. Zirconia seems to be a suitable implant material because of its tooth-like color, mechanical properties, biocompatibility, and low plaque affinity. However, the use of zirconia in clinical implant dentistry is still controversial. The aim of this chapter is to review clinical and research articles conducted on zirconia dental implants, and to provide information on zirconia dental implant osseointegration, mechanical strength, and microbiology. Compared to titanium-based dental implants zirconia implants show promising results in clinical studies. However, there are a limited number of long-term studies on the outcome of zirconia implants and additional clinical research needs to be done to fully appraise zirconia-based dental implants.

Advanced Ceramics for Dentistry Tanja Lube, Robert Danzer, 2013-09-05 Ceramic materials are frequently and increasingly used in dentistry. However, they are very brittle, the tensile strength has a large scatter, and their total fracture strain is very low. The strength depends on the loaded volume and on time under load. These properties cause special needs with respect to design, manufacturing tolerances, and handling, in production as well as in application. In ceramics, strength is limited by small flaws that are either caused by the processing of the material or by the machining of surfaces of specimens and components. This chapter introduces the principles of linear elastic fracture mechanics as the basis for understanding brittle fracture, and then presents fracture statistics. These topics are followed by an example for designing with ceramics. In subsequent sections, several other damage mechanisms and their relevance in dental applications will be discussed. The chapter closes with sections that deal with mechanical testing of ceramics and fractography.

Advanced Ceramics for Dentistry Simon Jegou Saint-Jean,2013-09-05 Feldspathic porcelains, leucite, and lithium disilicate glass-ceramics are important materials used in restorative dentistry for their biocompatibility, excellent aesthetic properties, good mechanical strength, and relative ease of use. As a general rule in clinical practice, the choice of material should be dictated by the specific clinical situation. It depends on the space available to build the aesthetic and functional restoration, but also on the nature of the underlying tooth or restorative structure. The best aesthetic results are obtained with feldspathic porcelain restorations directly resin-bonded to the tooth, whereas the best function is obtained with the stronger and tougher fully anatomical or veneered glass-ceramic crowns and bridges. The main limitation with these ceramics is their insufficient strength for use as posterior crowns and bridges. Possible means to obtain aesthetically pleasing and long-term performing posterior restorations are the development of stronger glass-ceramics, the use of translucent colored zirconia, or the use of the new class of more elastic hybrid polymer-ceramic materials.

Advanced Ceramics for Dentistry James Zhijian Shen,Tomaž Kosmač,2013-09-05

Dental Materials-E-Book John M. Powers,John C. Wataha,2012-02-08 - New and updated discussions address advances in areas such as esthetics, ceramics, and materials for dental impressions and dental implants. - Full-color illustrations improve clarity and realism, including for example, color photos of esthetics and bleaching showing the differences in shades of color. - More than 100 new illustrations and photographs include images showing the materials being used and applied.

Advanced Ceramics for Dentistry Corrado Piconi,Saverio Giovanni Condo,Tomaž Kosmač,2013-09-05 This chapter reviews the structure, mechanical properties, and biocompatibility of load-bearing ceramics used in dentistry. The development of this class of ceramic biomaterials is traced from the late sixties when alumina was introduced in dentistry. The literature on both polycrystalline and single crystal alumina dental implants is reviewed. The use of alumina declined when zirconia-toughened ceramics were introduced in orthopedics in the eighties. The use of yttria partially-stabilized tetragonal zirconia (Y-TZP) in dentistry allowed the production not only of dental implants and abutments, but also a broad range of load-bearing fixed partial dentures, such as multi-unit bridges and crowns, thanks to the development of CAD/CAM technology. Today, the trend is to use alumina and zirconia ceramics for making more aesthetic parts by improving their optical translucency.

Progress in Lubrication and Nano- and Biotribology Catalin I. Pruncu,Amit Aherwar,Stanislav Gorb,2021-11-23 Tribology is a multidisciplinary science that encompasses mechanical engineering, materials science, surface engineering, lubricants, and additives chemistry with tremendous applications. Progress in Lubrication and Nano- and Biotribology discusses the latest in lubrication engineering and nano- and biotribology. This book: Discusses green tribology and snakeskin tribology Explains biogreases and nanolubricant additives Explores applications in aerospace, additively manufactured parts, and severe environments Written for researchers and advanced students, this book encompasses a wide-

ranging view of the latest in nano- and biotribology for a variety of cross-disciplinary applications.

25th Annual Conference on Composites, Advanced Ceramics, Materials, and Structures - B, Volume 22, Issue 4 Mrityunjay Singh, Todd Jessen, 2009-09-28 This volume is part of the Ceramic Engineering and Science Proceeding (CESP) series. This series contains a collection of papers dealing with issues in both traditional ceramics (i.e., glass, whitewares, refractories, and porcelain enamel) and advanced ceramics. Topics covered in the area of advanced ceramic include bioceramics, nanomaterials, composites, solid oxide fuel cells, mechanical properties and structural design, advanced ceramic coatings, ceramic armor, porous ceramics, and more.

Materials for the Direct Restoration of Teeth John Nicholson, Beata Czarnecka, 2016-09-01 Materials for the Direct Restoration of Teeth focuses on the important role teeth play in our lives and how biomaterials scientists are ensuring that new dental materials are functional and esthetic. As research in the field is shifting away from traditional materials like metal, and towards more advanced materials, such as resins and ceramics, this book on the subject of modern materials for the direct repair of teeth provides readers with a comprehensive reference. The most pertinent modern dental materials and their properties and applications for the direct restoration of teeth are presented, along with case examples and guidance notes making this book an essential companion for materials scientists and clinicians. - Provides comprehensive coverage of conventional and modern materials for direct restoration of teeth - Includes guidance notes and case examples to support dental clinicians in decision-making - Authored by a scientist and a clinician, the book provides a balanced and complete treatise of the subject

Integrated Clinical Orthodontics Vinod Krishnan, Anne Marie Kuijpers-Jagtman, 2023-12-26 Integrates orthodontic diagnosis and treatment into the wider healthcare of the patient to achieve the highest possible standards of care Integrated Clinical Orthodontics offers an overview of clinical orthodontic theory and practice to equip clinicians to take an integrated approach to orthodontic practice. It presents the problems of orthodontics in an interdisciplinary context to describe how the potential complexity of dentofacial problems, the medical histories of patients, and a host of other factors contribute to orthodontic outcomes. The second edition has been expanded and thoroughly updated with new chapters and following an organized approach to the role of the orthodontist as part of a team. Cases in the book include orofacial deformities, sleep disorders, esthetic smile creation and temporomandibular joint problems. Orthodontic diagnosis and treatment are integrated into the wider health of the patient, including orthopedics, neurology, pediatrics, genetics and psychology, and the result is a modern, adaptable approach that places the patient and their needs at its center to achieve the highest possible standard of patient care. Readers of the second edition of Integrated Clinical Orthodontics will also find: New chapters on neuromuscular disorders, customized orthodontics, artificial intelligence, ethics and patient data Expanded content on special care in dentistry Guidance for the clinical interactions between orthodontics and other areas of dentistry and

medicine Clinical implications and applications of the integrated approach in every chapter Integrated Clinical Orthodontics is an essential resource for clinical orthodontists and specialists in related medical and dental fields who wish to take the holistic view of orthodontic practice.

Advanced Operative Dentistry David Ricketts, David W. Bartlett, 2011-05-16 This Elsevier title is a Pageburst product which provides you with the printed volume PLUS an e-book. Pageburst (formerly Evolve eBooks) allows you to quickly search the entire book, make notes, add highlights, and study more efficiently. Buying other Pageburst titles makes your learning experience even better: all of the eBooks will work together on your electronic 'bookshelf' so that you can search across your entire electronic library. Advanced Operative Dentistry: A Practical Approach is a brand new volume that addresses the use of fixed prosthodontics in a single handy reference source. Prepared by editors and contributors of international renown, this volume places unique emphasis on the biological basis of effective treatment planning by describing the diagnosis, aetiology, risk assessment and preventive management of diseases and disorders and how these factors are integral to predictable long-term patient outcomes. Advanced Operative Dentistry: A Practical Approach also gives clear advice on the selection and use of modern dental materials and describes how teeth are prepared - and to what extent - for indirect restorations such as crowns, bridges, veneers, inlays and onlays. The book also explores the use of complex indirect fixed prosthodontics which brings with it specific issues of restoration design, retention and occlusal management. Recognising that great deal of emphasis is placed on aesthetic dentistry by patient and dentist alike, this text also discusses factors which can impact upon aesthetics and how the aesthetic demands of patients can be met in a realistic and ethical manner. Clearly written and fully illustrated throughout, this practical step-by-step guide will be ideal for undergraduate dental students, vocational trainees and practitioners undertaking post-graduate exams. - Prepared by editors and contributors of international renown - Contains an abundance of full colour, clinical illustrations to show the results that can be achieved in real life - Describes how to achieve the best appearance in order to meet increasing patient expectations - Discusses the use of fixed prosthodontics in one volume and how fixed and removable prosthodontics can be integrated - Gives unique emphasis on the preventative, biological approach to the use of fixed prosthodontics in order to ensure positive long-term treatment outcomes - Clearly illustrates why aspects of tooth preparation are necessary and how the construction of restorations influences their fit - Provides an integrated, multidisciplinary step-by-step guide to the provision of indirect fixed restorations - Provides guidance on effective communication with laboratory staff to ensure high-quality tooth preparation - Describes the correct handling of materials and restorations when being fitted - Presents the latest findings regarding the use of contemporary materials and techniques - such as the use of Expasyl, Protamp temporary crowns, CAD and CAM crowns - Comprehensive coverage of the subject area makes cross-referencing to other books unnecessary

Advanced Dental Biomaterials Zohaib Khurshid, Shariq Najeem, Muhammad Zafar, Farshid Sefat, 2019-05-24 Advanced

Dental Biomaterials is an invaluable reference for researchers and clinicians within the biomedical industry and academia. The book can be used by both an experienced researcher/clinician learning about other biomaterials or applications that may be applicable to their current research or as a guide for a new entrant into the field who needs to gain an understanding of the primary challenges, opportunities, most relevant biomaterials, and key applications in dentistry. - Provides a comprehensive review of the materials science, engineering principles and recent advances in dental biomaterials - Reviews the fundamentals of dental biomaterials and examines advanced materials' applications for tissues regeneration and clinical dentistry - Written by an international collaborative team of materials scientists, biomedical engineers, oral biologists and dental clinicians in order to provide a balanced perspective on the field

Phillips' Science of Dental Materials Kenneth J. Anusavice, DMD, PhD, Chiayi Shen, H. Ralph Rawls, 2012-09-27 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.

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