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Dental Materials

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A combined text and student workbook, *Anatomy of Orofacial Structures: A Comprehensive Approach, Enhanced 7th Edition*, makes it easy to understand oral histology and embryology, dental anatomy, and head and neck anatomy. Now in full color, the book includes more than 800 images, as well as review questions and detachable flashcards for convenient, on-the-go study. Clear coverage provides a solid foundation for students in dental assisting and dental hygiene programs. From longtime dental educators Richard Brand and Donald Isselhard, this book provides a complete learning package!

Comprehensive coverage of oral histology and embryology, dental anatomy, and head and neck anatomy - makes this a single source for oral anatomy. More than 800 detailed anatomical illustrations support the material, including labeled line drawings, radiographs, and clinical photographs. Text/Workbook format includes a perforated workbook section with chapter-by-chapter questions. Removable flashcards feature an image of a tooth on one side and that tooth's identifying/important information on the other side, providing an easy and effective study tool. A logical

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organization puts the most foundational information first, starting with dental anatomy and followed by oral histology and embryology, and then head and neck anatomy. NEW! Full-color art program features more than 800 images - illustrations, clinical photos, and radiographs.

Completely revised, rewritten, and updated, the 10th edition of this dentistry classic reflects the remarkable changes and technological advances that have occurred since 1991. Emphasizes practical, clinical use, as well as the physical, chemical, and biological properties of materials. This manual provides step-by-step pictures and illustrations of the various laboratory exercises, which students have to learn and perform in their first and second year BDS course for the preclinical conservative dentistry examination. This is the only book of its kind that would serve as a guide for learning as well as practicing the exercises on both plaster and typodont models in the preclinical laboratory. Segregated into 11 well defined chapters, the book: Provides synopsis of topics related to conservative dentistry and endodontics Includes clear description with illustrations of every instrument and equipment used Provides details regarding the composition, properties, uses and manipulation of various dental materials Includes clear description with images of the phantom head and typodont teeth used in the preclinical laboratory along with a

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beginner's pictorial guide in using airtor and micromotor rotary instruments Discusses various features, rules and fundamentals of tooth preparation Provides step-by-step pictorial representation along with explanation of all laboratory plaster and typodont model exercises Provides more than 300 commonly asked questions to help students prepare for their viva- voce examination along with frequently asked spotters Includes an exhaustive glossary of conservative dentistry and endodontic terms

This South Asian edition, based on the 12th edition of Phillips' Science of Dental Materials, while maintaining the current and authoritative nature, has incorporated certain features, which would make it more valuable to students and clinicians in the Indian context. This book provides a comprehensive overview of the composition, biocompatibility, physical properties, mechanical properties, manipulative variables, and performance of direct and indirect restorative materials and auxiliary materials used in dentistry. Up-to-date scientific and clinical data on the most advanced restorative materials Clinical and technical aspects of various materials have been highlighted in special boxes to enable easy reference without having to go through the entire text Clinical aspects such as manipulation and techniques for cementation and polishing provided in easy to read boxes Summary provided at

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the end of chapter in a bulleted format Review Questions for each chapter culled over from the question papers of different universities over the last 10 years Glossary provides a list of key terms used in dental materials science

Phillips and Moore address the various aspects of dental materials science. The 5th Edition includes concerns about occupational safety, disposal of waste materials, and infectious diseases as they influence the choice and handling of dental materials. It examines such materials and procedures as castable ceramics, computer-aided design and manufacturing of ceramic restorations, implant materials, dental cements and more!

This book covers both basic scientific and clinically relevant aspects of dental composite materials with a view to meeting the needs of researchers and practitioners. Following an introduction on their development, the composition of contemporary composites is analyzed. A chapter on polymerization explains the setting reactions and light sources available for light-cured composites. The quality of monomer-to-polymer conversion is a key factor for material properties. Polymerization shrinkage along with the associated stress remains among the most challenging issues regarding composite restorations. A new classification of dental composites is proposed to offer more clinically relevant ways of differentiating between commercially available

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materials. A review of specific types of composites provides an insight into their key issues. The potential biological issues of dental composites are reviewed in chapters on elution of leachable substances and cariogenicity of resin monomers. Clinical sections focus on material placement, finishing procedures, and the esthetics and clinical longevity of composite restorations. Bonding to tooth tissues is addressed in a separate chapter, as is the efficiency of various composite repair methods. The final chapter discusses future perspectives on dental composite materials.

To the dentist or maxillofacial practitioner, radiology is an essential diagnostic discipline and a valuable tool for treatment planning. Now more than ever, dentists are often the first to encounter lesions of the face and jaws and are frequently held liable for recognizing pathologies and other sites of concern. *Oral and Maxillofacial Radiology: A Diagnostic Approach* provides clinicians of varied disciplines and skill levels a practical and systematic approach to diagnosing lesions affecting the face and jaws. Firmly grounded in evidence-based research, the book presents a clear understanding of the clinical impact of each lesion within a prospective diagnosis. *Oral and Maxillofacial Radiology* is logically organized, beginning with the basics of radiological diagnosis before discussing each of the advanced imaging modalities in turn. Modalities discussed

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include helical and cone-beam computed tomography, magnetic resonance imaging, positron emission tomography, and ultrasonography. Later chapters cover radiological pathologies of the jaw, and also those of the head and neck immediately outside the oral and maxillofacial region. Written by a recognized expert in the field, *Oral and Maxillofacial Radiology* contains a multitude of clinical images, practical examples, and flowcharts to facilitate differential diagnosis.

Extensively revised throughout, *Nolte's Essentials of the Human Brain, 2nd Edition*, offers a reader-friendly overview of neuroscience and neuroanatomy ideal for studying and reviewing for exams. Updated content, integrated pathology and pharmacology for a more clinical focus, and full-color illustrations make a complex subject easier to understand. Test and verify your knowledge with review questions, unlabelled drawings, and more.

The book aims in simplifying laboratory procedures in prosthodontics which solves the practical difficulties encountered by students. It comprises of pictorial representations, and the clinical application of each laboratory procedure. This will enable the student to observe, improve self-learning and also learn the text corresponding to each picture grasping the most probable exam questions. The target audience are not only undergraduate students it will be a refresher for first year Post graduate students and also of great help to Dental technicians. The learning ability of the students is

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more when they see pictures rather reading text explaining facts to which they aren't exposed initially. The book doesn't fail to include all short citation pertaining to each picture portrayed. Hence when a student is given an opportunity to read such books it will help them to retain, reproduce, perform and practice better.

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.

Provides the scientific basis and rationale for the selection and use of all dental materials used in dentistry. The author emphasizes practical clinical application, as well as the physical, chemical and biological properties of materials.

This textbook covers all aspects of materials science relevant to the practice of dentistry. It is aimed primarily at undergraduatedental students, although it will also be useful for practisingdentists, dental technicians and dental assistants. The 9th edition has been extensively revised to include the manyadvances in dental materials and their use that have occurredduring the past nine years. The chapters on Resin-based fillingmaterials and Adhesive restorative materials have been expandedsignificantly with new coverage of fibre reinforcement of compositestructures and polymerisable luting agents. A brand new chapter hasbeen added on

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endodontic materials.

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

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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.

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.

Textbook of Prosthodontics encompasses all the different subspecialties of prosthodontics like Complete Dentures (CD), Removable Partial Dentures (RPD), Fixed Partial Dentures (FPD), Oral Implantology (OI) and Maxillofacial Prosthetics (MFP) with an aim to demystify the subject. The book provides a strong basic foundation along with contemporary clinical and laboratory applications. The book is written in an easy -to-comprehend-and-remember style, the clinical and laboratory aspects are depicted with colour

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photographs, radiographs, line arts, tables, boxes and flowcharts to make text self-explanatory. Useful for UGs as a prosthodontic textbook, an easy-to-practice book for the general practitioners and a basic reference for the PGs
A truly student-oriented textbook!

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

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

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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.

This is a Pageburst digital textbook; The 11th edition of this leading reference is an outstanding, scientifically based source of information in the field of dental materials science. It presents up-to-date information on materials that are used in the dental office and laboratory every day, emphasizing practical, clinical use, as well as the physical, chemical, and biological properties of materials. Extensive new clinical photographs in this edition illustrate the topics, and color plates are integrated close to related concepts as they're discussed in each chapter. A new glossary of key terms found at the beginning of every chapter defines terms in the appropriate context of the chapter's discussion. Also in this edition, critical thinking questions throughout the book stimulate the readers' curiosity on specific topics, test their existing knowledge, and heighten their awareness of important or controversial subjects. Content outlines at the beginning of each chapter provide a quick reference for specific topics. The roles played by key organizations in ensuring the safety and efficacy of dental materials and devices are described - such as the American Dental Association, the U.S. Food and Drug Administration, the

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International Organization for Standardization, and the Fédération Dentaire Internationale. Up-to-date Selected Readings are presented at the end of each chapter to direct readers to supplemental literature on each topic. Numerous boxes and tables throughout summarize and illustrate key concepts and compare characteristics and properties of various dental materials. Distinguished contributors lend their credibility and experience to the text. Content has been completely updated to include information on the most current dental materials available. Glossaries at the beginning of each chapter define key terms used within the context of that chapter. Revised artwork gives this edition a fresh look, with high-quality illustrations and clinical photos to aid in the visualization of materials and procedures described.

Reorganization and consolidation of chapters into four major book parts presents the material in a more efficient way: Part I describes the principles of materials science that control the performance of dental materials in dental laboratories, research laboratories, student dental clinics, public health clinics, and private practice clinics. Part II focuses on impression materials, gypsum products, dental waxes, casting investments and procedures, and finishing and polishing abrasives and procedures. Part III provides an updated scientific and applied description of the composition, manipulation principles, properties, and clinical performance of bonded restorations, restorative resins, dental cements, dental amalgams, and direct-filling golds. Part IV presents a basic and applied description of materials that are processed in a laboratory or dental clinic. Critical thinking questions appear in every chapter to stimulate thinking and classroom discussion. The overall design has been improved to provide a more visually appealing format.

This essential resource gives the reader a practical overview of the expanding and evolving role of the dental professional

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In the health care community. Coverage includes globalism, diversity, the impact of technology on public health and community dentistry, and information on Hepatitis C and water fluoridation.

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.

Preceded by Fundamentals of operative dentistry / edited by James B. Summitt ... [et al.]. 3rd ed. c2006.

Advancing with Biomedical Engineering Today, in most developed countries, modern hospitals have become centers of sophisticated health care delivery using advanced technological methods. These have come from the emergence of a new interdisciplinary field and profession, commonly

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referred to as "Bio medical Engineering." Although what is included in the field of biomedical engineering is quite clear, there are some disagreements about its definition. In its most comprehensive meaning, biomedical engineering is the application of the principles and methods of engineering and basic sciences to the understanding of the structure-function relationships in normal and pathological mammalian tissues, as well as the design and manufacture of products to maintain, restore, or improve tissue functions, thus assisting in the diagnosis and treatment of patients. In this very broad definition, the field of biomedical engineering now includes:

- System analysis (modeling, simulation, and control of the biological system)
- Biomedical instrumentation (detection, measurement, and monitoring of physiologic signals)
- Medical imaging (display of anatomic details or physiologic functions for diagnosis)
- Biomaterials (development of materials used in prostheses or in medical devices)
- Artificial organs (design and manufacture of devices for replacement or augmentation of tissues or organs)
- Rehabilitation (development of therapeutic and rehabilitation procedures and devices)
- Diagnostics (development of expert systems for diagnosis of diseases)
- Controlled drug delivery (development of systems for administration of drugs and other active agents in a controlled manner, preferably to the

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(target area)

Netter's Advanced Head & Neck Anatomy Flash Cards are the perfect portable study tool for quizzing yourself on key anatomic structures and clinical conditions of the head and neck. They accentuate the clinically relevant anatomy through beautiful Netter illustrations and new artwork in the Netter tradition, making for a fast and fun review at any stage of your healthcare career. Cards are cross-referenced to the parent text, Netter's Head and Neck Anatomy for Dentistry, 3rd Edition, and include much of the new art from the textbook. Beautiful, well-known Netter illustrations accentuate the clinically relevant anatomy. Includes additional Imaging, New Art, and Clinical Correlate cards. Perfect for quick, portable study for head and neck and dental anatomy courses. Allow you to quiz yourself on key anatomy terms and test your knowledge of classic presentations of disease. This essential textbook introduces dental students to dental materials used in virtually all restorative dentistry procedures, from cavity fillings and root canals to making impressions or replicas of teeth and tissues prior to constructions of dentures. It details the properties and applications of materials such as metals, ceramics, polymers and composites. The new edition offers a basic understanding of the technology behind dental materials, emphasizes communication with the dental laboratory, and points

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out how to recognize whether the laboratory is producing quality output. Comprehensive and readable coverage addresses issues related to the composition, handling, and application of materials used by dentists in clinical practice. The necessary basic science is presented in a clear and understandable manner. The final section covers what the dentist needs to know about laboratory materials used by technicians in the construction of dental prostheses. New sections incorporate information on resin modified glass ionomer cements, polyacid modified resin composites, and luting systems. Sections on endodontics and dental ceramics have been extensively updated. New emphasis has been placed on quality issues, enabling the dentist to identify problems with impressions taken for dentures and to know whether the laboratory will be able to work with them. This book gives an introduction to the mechanical behavior and degradation of dental ceramics and guides the reader through their performance under effect of oral environments. It addresses the different kinds of dental ceramics, their properties, degradation and mechanical aspects with less emphasis on the physics and chemistry involved, which makes the reading interesting for beginners in the field. In each chapter, the reader will learn about the mechanical behavior of dental ceramics and each phenomenon involved in their application,

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besides finding some practical examples of their use in dental clinics, their manufacturing procedures and types of degradation. The clear language and the application-oriented perspective of the book makes it suitable for both professionals and students who want to learn about dental ceramics.

Rev. ed. of: Phillips' science of dental materials / [edited by] Kenneth J. Anusavice. 11th ed. c2003. Covering the functional and esthetic needs of edentulous patients, Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Protheses, 13th Edition helps you provide complete dentures, with and without dental implant support. It addresses both the behavioral and clinical aspects of diagnosis and treatment and covers treatment modalities including osseointegration, overdentures, implant-supported fixed prosthesis, and the current and future directions of implant prosthodontics. New to this edition are full-color photographs and coverage of immediately loaded complete dental protheses. From lead editor and respected educator George Zarb, Prosthodontic Treatment for Edentulous Patients provides an atlas of clinical procedures and emphasizes the importance of evidence-based treatment. Short, easy-to-read chapters cover the essentials of care for both short- and long-term patients, stressing the importance of evidence-based treatment. Expanded coverage of implant

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prosthodontics addresses the clinical protocols for implant-retained and implant-supported prosthodontic management. Specific chapters address the three surfaces of the complete denture: (1) an impression or intaglio surface, (2) a polished surface, and (3) an occlusal surface, the integration of which is crucial to creating a stable, functional, and esthetic result. Chapter on health and nutrition examines a number of systemic conditions (vesciculoerosive conditions, systemic lupus erythematosus, burning mouth syndrome, salivary dysfunction, Sjögren's syndrome, hyper/hyposalivation, diabetes) that affect the oral cavity and specifically influence the prognosis for wearing complete dentures or for accepting osseointegrated prostheses. Chapter on the time-dependent changes which occur in the oral cavity focuses on both time-related direct (ulcer/cheek biting, irritation hyperplasia, denture stomatitis, flabby ridge and pendulous maxillary tuberosities, hyperkeratosis and oral cancer, residual ridge reduction) and indirect (atrophy of masticatory muscles, nutritional status and masticatory function, control of sequelae) changes in the oral environment, and provides strategies to minimize the risk of such changes. Chapter on the techniques used to prolong the life of complete dentures focuses on the two techniques used to extend the life of dentures: relining and rebasing, also touching on

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denture duplication. Well-respected editors and contributors are the leaders in their field, lending credibility and experience to each topic.

Presenting a comprehensive exploration of restorative dental materials, this book provides the information readers need to know to correctly use dental materials in the clinic and dental laboratory. Ranging from fundamental concepts to advanced skills, it also provides the scientific basis for technical procedures and manipulation of materials.

The new edition of this popular, clinically relevant book provides the biological background required by dentistry students in order to take the science of cariology to the chairside in the management of patients.

This great resource presents dentistry and dental practice against the ever-changing backdrop of economic, technological, and demographic trends, as well as the distribution of the oral diseases that dental professionals treat and prevent. The text is logically divided into five parts. Dentistry and the Community deals with the development of the dental and dental hygiene professions, demographics of the public, its use of dental services, and the professional role. Dental Practice covers the structure and financing of dental care, the personnel involved in providing that care, and the emerging field of evidence-based dentistry. The Methods of Oral Epidemiology provides a comprehensive assessment of the epidemiology of oral diseases and the determinants of their distribution in society. The Distribution of Oral Diseases and Conditions gives a detailed presentation of how the common oral

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diseases are distributed in the community. Prevention of Oral Diseases in Public Health discusses methods of preventing oral diseases in dental practice and through public health action. Thorough explanations of how to read dental literature help readers understand how to draw their own conclusions from the latest studies. Coverage presents a number of complex problems facing practitioners today regarding access to dental care, and discusses how to solve them by working with public authorities and insurers. Comprehensive coverage of oral disease distribution helps readers to understand trends and risks they will encounter in the field. Material on prevention and control of oral diseases provides important information that all dental practitioners should have. Research designs used in oral epidemiology assess the pros and cons of dental indexes available, allowing readers to gain an understanding of the complexities of disease measurement and research. Detailed content on providing dental care to the American public presents a unique opportunity to learn the system of dental care delivery. State-of-the-art coverage of mercury issues offer a balanced view of issues like toxicity, potential hazards, review of evidence, and politics. Ethical guidelines provide a discussion of how ethical principles have evolved over time and the precipitating events that pushed ethical practice into the forefront of health care. Information on the development of dental professions gives readers insight into how these professions originated and their current state. Content addresses evidence-based dentistry, and how it can and should become part of the everyday clinical life

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of the practitioner, since staying current is vital to providing excellent patient care. · Discussions of infection control procedures and the impact of HIV and Hepatitis B incorporate new, updated guidelines in dental health care settings released in 2003.

Dental Materials at a Glance, 2nd edition, is the latest title in the highly popular At a Glance series, providing a concise and accessible introduction and revision aid. Following the familiar, easy-to-use at a Glance format, each topic is presented as a double-page spread with key facts accompanied by clear diagrams encapsulating essential information. Systematically organized and succinctly delivered, Dental Materials at a Glance covers: Each major class of dental material and biomaterial Basic chemical and physical properties Clinical handling and application Complications and adverse effects of materials Dental Materials at a Glance is the ideal companion for all students of dentistry, residents, and junior clinicians. In addition, the text will provide valuable insight for general dental practitioners wanting to update their materials knowledge and be of immediate application for dental hygienists, dental nurses, dental assistants, and technicians.

A core textbook for dental students on the properties and applications of dental materials, this edition includes new sections on resin modified glass ionomer cements, polyacid modified resin composites and luting systems.

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