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- Incorporates more than 300 topics in question answer format previously asked in various universities over the last 20 years
 - Contains 48 chapters divided into two sections- Endodontics and Operative Dentistry - Includes ample tables and flowcharts for better understanding of the subject along with more than 150 well drawn illustrations for easy grasp of the text - Beneficial for undergraduate and postgraduate medical students preparing for exams - Also important for viva voce.

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 bio-

materials 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 Endodontic Microbiology, Second Edition presents a comprehensive reference

to the microbiology, pathogenesis, management, and healing of endodontic pathosis, emphasizing the importance of biological sciences in understanding and managing endodontic disease and its interaction with systemic health. Provides a major revision to the first book to focus on the problems related to microbes in the root canal and periapical tissues Updates current knowledge in endodontic pathosis, especially regarding next generation sequencing and microbial virulence Presents useful diagrams, images, radiographs, and annotated histological images to illustrate the concepts Emphasizes the importance of biological science in understanding and managing endodontic disease Includes contributions from the leading researchers and educators in the field

This 4th edition is an es-

sential scientific & clinical building block for understanding the etiology & treatment of teeth with pulpal & periapical diseases. You'll easily understand & learn procedures through step-by-step explanations accompanied by illustrations, as well as video clips included on CD.

Fear of pain is the number one reason people give for not making regular visits to the dentist. At the same time, a majority of dentists report experiencing anesthesia-related problems during restorative dental procedures. If dentists are able to provide painless treatment, patient compliance and satisfaction are likely to improve. Pulpal anesthesia is a vital part of the delivery of dental care for restorative dentists and endodontists. Administration of local anesthesia is invariably the first procedure they perform and it affects everything they do thereafter. If the patient is not adequately anesthetized, difficulties inevitably arise. This book will help you successfully anesthetize your patients using the newest technology and drugs available. It presents the rationale, advantages, and limitations of the various anesthetic

agents and routes of administration. A special emphasis is placed on supplemental anesthetic techniques that are essential to the practice of dentistry.

Endodontics is the prevention, diagnosis and management of diseases of the tooth pulp and the tissues surrounding the root of a tooth. This new edition is a complete guide to endodontics for dental students. Divided into 39 chapters, the book covers numerous procedures and case studies and the text is further enhanced by more than 1500 clinical photographs, diagrams and tables. The fourth edition has been fully revised, and new topics added, to provide students with the latest information and advances in the field. Key points and clinical tips are highlighted for each topic and questions are included at the end of each chapter to assist exam preparation. Key points Complete guide to endodontics for dental students Fully revised, new edition providing latest advances in the field Includes more than 1500 clinical photographs, diagrams and tables Previous edition (9789350909522) published in 2013

This book is intended as a one-stop reference that

will assist primary care community dentists, sports physicians, athletic trainers, and emergency room physicians in meeting the needs of athletes when managing facial and dental trauma and sports-related oral diseases. The opening chapters provide a complete review of sports-related dentoalveolar trauma, with coverage of emergent care, the role of endodontics, surgical issues, and restorative considerations. Prevention of dental trauma by means of mouthguards is then examined, with attention to materials and design, public policy concerning the use of mouthguards, and the role of mouthguards in relation to the ever more pressing issue of concussion in sport. Dental erosion in athletes, for example due to energy drinks, is discussed, as are the possible sequelae of use of spit tobacco, performance-enhancing drugs, and ergogenic aids. The new topic of the potential value of dental appliances in enhancing sports performance is also addressed. The book concludes by reviewing the role of the dentist within the multidisciplinary sports medicine team. The text is supported by an abundance of informative illustrations.

This book serves as a clinical guide to help the practitioner improve endodontic treatment outcomes. It focuses on the various factors affecting the prognosis of endodontic treatments and on their impact on short-term and long-term results. The text incorporates up-to-date knowledge, techniques and treatment protocols. Each chapter has been carefully chosen to address either foundational knowledge or a select aspect of endodontic treatment. The authors analyze the knowledge accumulated from a large number of outcome studies and provide the reader with a critical appraisal indicating the strengths and weaknesses of those studies. This information is then used to make recommendations on how to predict the outcome of the intended treatment. The authors emphasize that the endodontic prognosis is a multifactorial phenomenon, underscoring how various factors, singularly and in combination, influence the treatment outcome. Readers are provided with tools to successfully assess the prognosis of the proposed treatment at the outset and to execute the planned treatment focused on optimal out-

come.

A problem-based text that presents a wide range of real cases in endodontics. *Clinical Cases in Endodontics* presents actual clinical cases, accompanied by academic commentary, that question and educate the reader about essential topics in endodontic therapy. It begins with sets of cases illustrating the most common diagnoses and the steps involved in preparing a treatment plan. Subsequent chapters continue in this style, presenting exemplary cases as the basis of discussing various treatment options, including nonsurgical root canal treatment, re-treatment, periapical surgery, internal and external resorption, emergencies and trauma, and treating incompletely developed apices. The progression from common to increasingly challenging clinical cases enables readers to build their skills, aiding the ability to think critically and independently. The *Clinical Cases* series is designed to recognize the centrality of clinical cases to the profession by providing actual cases with an academic backbone. *Clinical Cases in Endodontics* applies both theory and practice to real-life

cases in a clinically relevant format. This unique approach supports the trend in case-based and problem-based learning, thoroughly covering the full range of endodontic treatment. Unique case-based format supports problem-based learning. Promotes independent learning through self-assessment and critical thinking. Covers all essential topics within endodontics. Presents numerous illustrations and photographs throughout to depict the concepts described. *Clinical Cases in Endodontics* is an ideal resource for students mastering endodontic treatment, residents preparing for board examinations, and clinicians wanting to learn the most recent evidence-based treatment protocols.

This book reviews the available information on bacterial disinfection in endodontics, with emphasis on the chemical treatment of root canals based on current understanding of the process of irrigation. It describes recent advances in knowledge of the chemistry associated with irrigants and delivery systems, which is of vital importance given that chemical intervention is now considered one of the most important measures

in eliminating planktonic microbes and biofilms from the infected tooth. Recommendations are made regarding concentrations, exposure times and optimal sequences. Possible complications related to the use of the different solutions are highlighted, with guidance on response. In addition, clinical protocols are suggested on the basis of both clinical experience and the results of past and ongoing research. Throughout, a practical, clinically oriented approach is adopted that will assist the practitioner in ensuring successful endodontic treatment.

Diseases and Conditions in Dentistry: An Evidence-Based Reference is the ideal, one-stop guide for dentistry clinicians to keep at their side. Provides a quick reference for the busy clinician covering diseases and conditions in endodontics, periodontics, prosthodontics and restorative dentistry. Offers identically formatted chapters following the same clear and concise layout with detailed clinical cases and evidence-based discussions. Features a companion website with additional clinical photographs, radiographs, and case notes.

CLINICAL ATLAS OF RE-

TREATMENT IN ENDODONTICS Explore a comprehensive pictorial guide to the retreatment of root canals and failed endodontic cases with step-by-step advice on retreatment management. Clinical Atlas of Retreatment in Endodontics delivers an image-based reference to the management of failed root canal cases. It provides evidence-based strategies and detailed clinical explanations to manage and retreat previous endodontically failed cases. It contains concrete evidence-based and practical techniques accompanied by full-colour, self-explanatory clinical photographs taking the reader through a journey of successful management of the failed clinical cases. Using a variety of clinical cases, the book demonstrates why and how endodontic failures occur, how to prevent them, and how to manage them in clinical practice. It also emphasises on evaluating the restorability and prognosis of the tooth in order to make a proper case selection for providing retreatment. This book also discusses the various factors that can help the clinician to make a case for nonsurgical or surgical retreatment. Readers will benefit from the inclusion

of clinical cases that provide: A thorough introduction to perforation repair, with a clinical case that includes the repair of pulpal floor perforation caused due to excessive cutting of the floor of the pulp chamber. An explanation of various factors for instrument separation, supported with a case that includes the removal of a fractured instrument. Practical discussions of instrument retrieval, with a case that includes a fractured instrument at the apical third of mandibular molar. A step wise pictorial description for guided root canal therapy. Selective root canal treatment as a treatment option for retreatment of failed endodontic cases. A detailed clinical description for how to explore and modify the endodontic access cavity for locating extra/missed canals. Perfect for endodontists, endodontic residents, and general dentists. Clinical Atlas of Retreatment in Endodontics is also useful for undergraduate dental students and private practitioners who wish to improve their understanding of endodontic retreatment and are looking for a one-stop reference on the subject.

This book provides dental

professionals with a clear understanding of current clinical and scientific knowledge on the various aspects of pulp treatment for both primary and young permanent teeth. Diagnostic parameters are clearly presented, along with step-by-step descriptions of clinical procedures, including indirect and direct pulp treatments, pulpotomy, and pulpectomy. The rationale for the materials used in each technique and their individual merits and disadvantages are examined in detail. In the case of pulpotomy, all the materials used since the introduction of this treatment modality are discussed (e.g., formocresol, glutaraldehyde, ferric sulfate, and MTA) and the roles of sodium hypochlorite, electrofulguration, and laser therapy are elucidated. Special attention is devoted to pulpectomy and root canal treatment, with consideration of debriding and obturation techniques, rinsing solutions, and root-filling pastes. A further individual chapter is dedicated to restorations of teeth treated with the different types of pulp therapy. The various conservative treatment modalities are also presented, including specific treatments for immature

nonvital permanent teeth. The concluding chapter looks to the future and the potential value of stem cells in pulp therapy. Microsurgery in Endodontics provides the definitive reference to endodontic microsurgery, with instructive photographs and illustrations. Provides a definitive reference work on endodontic microsurgery. Includes contributions from pioneers and innovators in the field of microsurgical endodontics. Describes techniques for a wide range of microsurgical procedures. Includes more than 600 instructive illustrations and photographs. 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!

The second edition of Textbook of Endodontology continues the aim of serving the educational needs of dental students and dental practitioners searching for updates on endodontic theories and techniques. Significantly restructured and completely updated, the new edition maintains the ethos of the original, facilitating ease of learning through pedagogical features such as annotated references, core concepts and key literature. It features a number of new chapters on topics ranging from outcomes of endodontic treatment to managing endodontic complications to dental trauma. Additionally, all other chapters have been thoroughly revised and brought up to date to reflect contemporary knowledge and practice. Textbook of Endodontology continues its important function of providing lucid scholarship and clear discussion of biological concepts and treatment prin-

ciples in endodontics, and as such will be an important update to its current readers and a valuable discovery to its new audience.

This volume offers readers a pragmatic approach to endodontic therapy for permanent molars, based on up-to-date evidence. All chapters were written by experts in the field, and focus on preparation for treatment, vital pulp therapy, access cavity preparation, root canal shaping, outcome assessment, retreatment, apical surgery, and specific aspects of restorations for root canal-treated molars. The role of micro-CT data in visualizing canal anatomy is compared to cone beam CT, and detailed information on current clinical tools, such as irrigation adjuncts and engine-driven preparation tools is provided. Important steps are illustrated in clinical photographs and radiographs, as well as by schematic diagrams. Tables and check boxes highlight key points for special attention, and clinical pitfalls. Guiding references are provided. Performing molar endodontics is often a daunting prospect, regardless of the practice setting. This is where "Molar Endodontics" is an ide-

al source of guidance for practitioners. Special devices and recent innovations in apex locators and nickel-titanium instruments have, however, made procedures significantly easier and more practical for non-specialists. This book will help conscientious clinicians to master molar endodontics with well-described and established clinical methods.

Tremendous changes have occurred in the field of endodontics since the first edition was published, both in understanding the basic biology of the endodontic disease processes as well as recent techniques and instruments used in endodontic therapy. The advances in microbial dynamics and understanding of nuances of pulp spaces has made endodontic prognosis more predictable. The focus of the second edition is primarily to update the text incorporating all the advances in materials, instruments, and techniques, which have revolutionized endodontics in the past few years. This edition has been thoroughly updated. - New chapters have been added ('Drugs Used in Endodontics', 'Endodontic Case Selection', and 'Ethics in Endodontics'

among others. - All chapters have expanded text and figures in view of recent developments. - The main topics are summarized in boxes and tables for ready reference. - Many line diagrams and clinical photographs have been added throughout. The book will be an asset for undergraduate and postgraduate students, as well as teachers and practitioners interested in the subject of endodontics.

"This handbook will help clinicians understand and use PRF in endodontics by discussing the science, clinical applications, and techniques for specialists and general practitioners"--

The problems arising from root canals in the daily clinical practice of dentistry can often be difficult and time-consuming to solve. Here a team from one leading centre of dental excellence provides detailed and highly illustrated guidance to these difficult areas and how to manage the problems that they often pose.

Ingle's Endodontics, 7th edition, is the most recent revision of the text that has been known as the "Bible of Endodontics" for half a century. The new edition, published in two volumes, continues the

tradition of including the expertise of international leaders in the field. Eighty-six authors contributed cutting-edge knowledge and updates on topics that have formed the core of this book for years. New chapters reflect the ways in which the field of endodontics has evolved over the 50 years since the pioneer John I. Ingle authored *Endodontics*. Ingle's *Endodontics* will continue to be the standard against which all other endodontic texts will be measured. The 40 chapters are arranged in two volumes under three sections: *The Science of Endodontics*; *The Practice of Endodontics: Diagnosis, Clinical Decision Making, Management, Prognosis*; and *Interdisciplinary Endodontics*. With contributions from the world's experts in all phases of the specialty, Ingle's *Endodontics*, 7th edition promises to be an indispensable dentistry textbook, an essential part of every endodontist's library.

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

This book describes the latest minimally invasive approaches in endodontics and explains the principles that guide them. The advantages and limitations of these approaches are critically analyzed with the intention of defining new endodontic gold standards. The trend toward the use of more conservative procedures within endodontics reflects the wider adoption of minimally invasive dentistry in general and is being fostered by the introduction of new materials, devices, instruments, and techniques as well as the use of magnification and advanced three-dimensional diagnostic imaging technologies.

In this book, readers will find clear explanation of these advances and their impacts. Minimally invasive access to the root canal system is described, and detailed attention is devoted to the application of novel strategies in root canal instrumentation and disinfection, root canal filling, coronal restoration, retreatment, and endodontic surgery. Minimally invasive alternatives to complete endodontic treatment, such as vital pulp therapies, and to dental extraction and implant placement, including surgical extrusion, intentional replantation, and tooth autotransplantation, are also discussed. Minimally Invasive Approaches in Endodontic Practice will be of value for endodontists at all levels of experience.

The third edition of *Textbook of Endodontology* provides lucid scholarship and clear discussion of endodontic principles and treatment to dental students and dental practitioners searching for current information on endodontic theories and techniques. Completely revised and updated new edition Features six new chapters Provides pedagogical features to promote understanding Includes clinical case studies to put the informa-

tion in the clinical context Illustrated in full color throughout with clinical images and detailed diagrams Offers interactive multiple-choice questions on a companion website

Textbook of Operative Dentistry is the latest edition of this richly illustrated resource, covering diagnosis, treatment and prognosis of dental problems which do not require full coverage restoration. Textbook of Operative Dentistry combines proven methods with the latest scientific developments in preventive and restorative dentistry, including nanodentistry, bringing this essential edition fully up to date.

Presents step-by-step procedures that allow general practitioners to provide root canal therapy for cases that meet specific criteria and to recognize when to refer to a specialist. The authors believe that emerging technologies have expanded the role that general practitioners can take to treat patients with apical periodontitis with a high degree of predictability and success. In language and illustrations that are clear, simple, and direct, the authors guide readers through the steps of diagnosing the problem, understanding

how and with what instruments to treat it, and performing several different treatment procedures.

Textbook of Endodontics is a comprehensive text on current practice, trends and philosophy in the art and science of endodontics. The book has been specifically written keeping the curriculum needs of a final year undergraduate student in mind, and is strictly as per the Dental Council of India (DCI) guidelines. About the Author : - Anil Kohli completed his graduation and postgraduation from Faculty of Dental Sciences, King George's Medical College, Lucknow. He is widely respected for his immense contributions to the field of Dentistry all over the world. In appreciation of his distinguished services, he was conferred the 'Padma Shree' in 1992 and the Padma Bhushan' in 2005. He has also received the coveted 'Dr B C Roy National Award' as well as the 'S S Bhatnagar Award' from King George's Medical College, Lucknow, for his outstanding work. Dr Kohli has published several research papers in National and International journals, headed several professional bodies and is currently the President of Dental Council of India. In recogni-

tion of his outstanding contributions, he has been conferred the Honorary rank of 'Brigadier' in the Army Dental Corps. He is also Dean, Faculty of Dentistry, Baba Farid University, Punjab. He is an Adjunct Professor to Boston and Tufts University. He has been awarded fellowship of Royal College of Dental Surgeons of England. He is the Chairman of Education Committee, Asia Pacific Dental Congress (APDC) and a member of the Education Committee of Fédération Dentaire Internationale (FDI). He has to his credit 10 honorary PhD / DSc degrees from various national and international universities.

Conservative Dentistry is the branch of dentistry which is concerned with the conservation of teeth in the mouth. It involves operative dentistry and endodontics, and includes various kinds of direct and indirect restorations of individual teeth in the mouth. This new edition has been fully revised to provide dental students with the most up to date information in the field. Beginning with an introduction to the topic, the following chapters provide step by step guidance through tooth morphology, decay, and various

treatment procedures. New topics have been added to the second edition of this book including morphology of primary teeth, chair position and dental operator, armamentarium, tooth preparation for primary teeth, adhesive dentistry, and examination spotters. Each chapter concludes with self-assessment questions and features clinical images and line diagrams to assist understanding. Key Points Fully revised, new edition providing latest information in field of conservative dentistry Second edition includes many new topics Self-assessment questions conclude each chapter to assist revision Previous edition (9789350250778) published in 2011

Mineral trioxide aggregate (MTA) was invented in the mid-1990s at Loma Linda University, USA, with the aim of introducing a material for use as a root-end filler that would set and develop its properties in the presence of moisture. MTA is a mixture of Portland cement and bismuth oxide, which is added to enhance the radiopacity of the material. These two components are mixed with water to produce hydrated cement. This book concisely presents infor-

mation on diverse aspects of MTA and its use with a view to making it more widely available to clinicians and researchers. The topics covered include the development of MTA and its introduction into clinical dentistry, its chemical composition and setting characteristics, manipulation and placement, material properties, reactivity and the influence of environmental factors. The clinical applications are clearly explained and related innovations and further materials currently available on the market are also discussed.

This title is directed primarily towards health care professionals outside of the United States. A practical, highly illustrated guide to endodontics for the primary care dentist. A practical and accessible guide to endodontics for the general dentist. Brings together new technologies available for treatment with the increasing biological understanding of endodontic disease processes. Comprehensively illustrated by the authors' own cases. Presents key aspects of primary treatment, root canal re-treatment and periradicular surgery.

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.

This lavishly illustrated, practical guide to endodontic treatment covers the latest developments in instrumentation and filling techniques. Ideal for all dental practitioners involved in endodontic therapy [root canal treatment], this new edition has been fully updated throughout and now includes a new author team from the Eastman Dental Institute. Practical approach to the subject takes the reader through every step of the clinical procedures from patient assessment to specific problem solving More than 1500 superb illustrations, including colour coded algorithms, present clinical, diagnostic and practical information in an easy-to-follow manner Offers sensible 'best practice' routes through often conflicting approaches to treatment A full chapter on radiography emphasises its importance in both diagnosis and treatment

Includes a chapter on the avoidance of litigation
Written at a level which ensures a wide appeal to the general dental practitioner and those commencing specialist training
Includes discussion of the 3D imaging of root canal systems using microCT
Discusses the use of NiTi instruments, both hand and rotary, which are used by an increasing proportion of dentists
Learning outcomes stated at the start of each chapter help the readers plan their study

The book offers a refreshingly simple approach to understand the science of conservative dentistry and endodontics. Student-friendly and examination oriented, the book enables students to not only understand the subject but also prepares confidently for their examinations. The book covers not only the basics of endodontics but also features the latest updates in the related area.
About the Author : - Jayshree Hedge, BDS and MDS, Professor in Conservative Dentistry and Endodontics, Sri Da-

dasaheb Kalmegh Smruti Dental College, Nagpur, has a teaching experience more than 12 years and has been exclusively practising Endodontics. Have guided the Postgraduates in clinical studies and presented scientific papers in the conferences.

The first section of this book deals with microbiologic and pathophysiologic aspects of apical periodontitis, while the second section describes the best evidence for predictable treatment and prevention of the disease.