

## Endodontic Microsurgery

Dr. Syngcuk Kim, a world leader in microsurgical endodontic techniques, introduces advancements to the dental community in this book. This atlas showcases the most recent advances in microsurgical techniques and instrumentation, in a full-color reference format with 380 brilliant illustrations. Current topics include a comparison of traditional surgery and microsurgery in endodontics, microsurgical instruments, operation of the microscope, soft tissue management, and retropreparation. The book includes actual case histories. This book concentrates on the proven surgical practices of Dr. Kim. Includes information on the inner workings of the operation microscope and the best way to work with the scope, ultrasonic unit and the new generation of microsurgery instruments created specifically for endodontics. Specific chapters devoted to presurgical evaluations and premedications. An entire chapter features case selections that clearly delineate the need for surgical intervention.

Endodontics: Principles and Practice E-book

Biomaterials in Endodontics offers an up-to-date overview of endodontic biomaterials and their applications in regenerative medicine and tissue engineering. This book details the key biomaterials used in clinical endodontics and the benefits and challenges of using these materials, from root canal obturation materials to alloys for endodontic files and hand instruments. Chapters also offer a unique insight into the regenerative applications of endodontic biomaterials, such as the use of stem cells and growth factors for bone regeneration. Biomaterials in Endodontics is a useful resource for researchers working in biomedical engineering, regenerative medicine, and materials science with an interest in dentistry and bone regeneration. This book is also a helpful guide for endodontists, dentists, dental scientists, and clinicians with an interest in biomaterials for endodontics. Details the latest innovations in materials used for endodontic procedures. Offers a unique insight into regenerative applications of endodontic biomaterials. Appeals to an interdisciplinary readership, combining materials science, regenerative medicine, and biomedical engineering approaches.

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.

Pitt Ford's Problem-Based Learning in Endodontology combines the theory and practice of endodontics, providing the reader with information that is both clinically relevant to everyday practice and also evidence based. It includes a wealth of cases that span topics such as the maintenance of a vital pulp, root canal treatment, surgical endodontics and trauma. Each case is accompanied by full colour photographs and/or radiographs that illustrate the key stages in diagnosis, treatment planning, treatment and prognosis. In addition, the detailed commentary provides information on viable alternative treatment strategies, rationale (biologic considerations) for the treatment described, evaluation of the current evidence for/against the course of treatment and finally the prognosis. The book allows the reader to apply their existing knowledge to a range of clinical scenarios and to gain new knowledge and apply it to further clinical situations. In addition the reader will be encouraged to transfer knowledge and diagnostic skills from one problem to another and guided to improve their self-directed learning and reflective skills.

Dentistry has been undergoing enormous changes, and the field of endodontics has certainly been at the forefront. Recent advances in technology, materials, and equipment have changed the way endodontics is practiced today, thereby facilitating treatments with greater efficiency, precision, and success, ultimately leading to better outcomes. Current Therapy in Endodontics encompasses the recent discoveries and applications for this field in one clinically relevant volume. Evidence-based presentation of recent advances in the field of endodontics. Objective comparison of materials and instruments on the market. Tables present key data and instruction for quick viewing and comprehension.

The Manual of Minor Oral Surgery for the General Dentist, Second Edition continues the aim of providing clear and practical guidance to common surgical procedures encountered in general practice. Fully revised and updated with three additional chapters, the book approaches each procedure through detailed, step-by-step description and illustration. Ideal for general dental practitioners and students, the book is an indispensable tool for planning, performing, and evaluating a range of surgical procedures in day-to-day practice. The Manual of Minor Oral Surgery for the General Dentist begins with an expanded chapter on patient evaluation and history taking and a new chapter on managing the patient with medical comorbidities. It also addresses infections and sedation besides procedural chapters on such topics as third molar extractions, preprosthetic surgery, surgical implantology, crown-lengthening, and biopsy of oral lesions.

From renowned endodontics experts Mahmoud Torabinejad, Ashraf Fouad, and Shahrokh Shabahang comes Endodontics: Principles and Practice, 6th Edition south Asia Edition. This focused and extensively revised new edition contains all the clinically-relevant information needed to incorporate endodontics into general dentistry practice. Illustrated step-by-step guidelines address the ins and outs of diagnosis, treatment planning, managing pulpal and periapical diseases, and performing basic root canal treatments. Updated evidence-based coverage also includes topics such as the etiology of disease, local anesthesia, emergency treatment, obturation, and temporization. It's the perfect endodontics guide for both entry-level dental students and general dentists alike. Well-known, international contributors share guidelines, expertise, and their clinical experience with contemporary technologies and procedures. Authoritative, visually detailed coverage provides a practical understanding of basic endodontic principles and procedures, including pulpal and periapical diseases and their management. Clinically-relevant organization reflects the order in which procedures are performed in clinical settings, enhancing your understanding of the etiology and treatment of teeth with pulpal and periapical diseases. Over 1,000 full-color illustrations ensure a clear, accurate understanding of procedures, and include radiographs and clinical photographs. Learning objectives help you meet the theoretical and procedural expectations for each chapter. NEW! Sharper focus on the most clinically relevant content eliminates much of the basic science that you have already studied and focuses on the information and skills that are most-needed during clinical practice. NEW! Fully updated, evidence-based content integrates the best clinical evidence with the practitioner's clinical expertise and the patient's treatment needs and preferences. NEW! Mid-chapter questions check your understanding of the concept before moving onto the next topic. This book is intended as a practical guide to endodontic diagnosis, pathology, and treatment planning. The coverage is comprehensive and encompasses such topics as disease classification, the endodontic armamentarium, anatomy, the role of different radiographic techniques, treatment decision making, preoperative management, the use of antibiotics and analgesics, and anesthesia. Numerous high-quality illustrations and clinical photographs are included to highlight key concepts and findings, and best practice is documented by means of clinical case examples. The provision of concise tips and recommendations ensures that the reader will quickly be able to find solutions to diverse endodontic challenges. In addition, the most relevant literature is reviewed in order to support and reinforce the discussed clinical concepts. The book will assist dental practitioners and endodontic trainees/specialists in planning the management of any endodontic case from first principles.

This book presents up-to-date recommendations for the prevention, diagnosis, and management of complications in endodontic surgical procedures, based on the best available

scientific evidence. Common risks such as wound healing impairment, infection and bleeding are discussed and specific complications related to endodontic surgery, such as maxillary sinus involvement and damage to adjacent neurovascular structures, are reviewed. For each step of endodontic surgical procedures, surgical goals and possible outcomes are reviewed. Preoperative, intraoperative and postoperative risk factors for complications are identified and treatment options presented. Helpful decision-making algorithms, tables and flow charts complement the reader-friendly text.

Our ultimate goal is to assertively teach the future generation of graduate students and also train our colleagues to incorporate these techniques and concepts into everyday practice. We must continuously run well controlled experiments, clinical as well as biological, on many new techniques and materials to meet the present and future challenges. We believe that endodontic microsurgery with MTA is a predictable procedure to save teeth. We must assertively teach the future generation of graduate students, and also train our colleagues to incorporate these techniques into everyday clinical practice, similar to what periodontists did 15 yr ago with implants. The preservation of our natural teeth must be our ultimate goal. After all, when all is said and done, our natural teeth are always better than any man-made replacement.

Find the latest evidence-based research and clinical treatments! Cohen's Pathways of the Pulp, 11th Edition covers the science, theory, and practice of endodontics with chapters written by internationally renowned experts. Full-color illustrations and detailed radiographs guide you through each step of endodontic care - from diagnosis and treatment planning to proven techniques for managing pulpal and periapical diseases. New to the print edition are seven new chapters, and the eBook version adds three more. As an Expert Consult title, Cohen's Pathways of the Pulp lets you search the entire contents of the book on your desktop or mobile device, and includes videos, case studies, and more. Edited by noted specialists Kenneth Hargreaves and Louis Berman, this book is the definitive resource in endodontics! Print version of the text includes 27 comprehensive chapters and meets the CODA requirements for endodontic dental education. eBook version of the text consists of 30 searchable chapters, including the 27 chapters in the print version, and features videos, PowerPoint® slides, review questions, case studies, and more; this expanded version makes it easy to find clinical answers quickly, and meets the needs of students, clinicians, and residents in endodontics. Videos and animations demonstrate key procedures such as palpation of the masseter muscle, introsseous anesthesia with the X-tipT system, dentin hypersensitivity, indirect ultrasound, palpation of the temporomandibular joint, and ultrasonic settling. Over 2,000 illustrations include full-color photos and line art, along with a wide range of radiographs, clearly demonstrating core concepts and reinforcing the essential principles and techniques of endodontics. NEW co-editor Dr. Louis H. Berman joins lead editor Dr. Kenneth M. Hargreaves for this edition, and a respected team of contributors includes experts from many U.S.-based dental education programs, as well as programs in Canada, the U.K., Norway, Sweden, France, Germany, Italy, and Switzerland. NEW chapter organization reflects the chronology of endodontic treatment with three comprehensive sections: Clinical Endodontics, focusing on core clinical concepts, and Biological Basis of Endodontics and Endodontics in Clinical Practice, both with information that advanced students, endodontic residents, and clinicians need to know. NEW! Three chapters are available in the eBook: Understanding and Managing the Anxious Patient, Endodontic Records and Legal Responsibilities, and Endodontic Practice Management. NEW Radiographic Interpretation chapter clarifies the diagnostic process with coverage of imaging modalities, diagnostic tasks, three-dimensional imaging, cone beam computed tomography, intra- or post-operative assessment of endodontic treatment complications, and more. NEW Pain Control chapter addresses the management of acute endodontic pain with coverage of local anesthesia for restorative dentistry and endodontics, along with nonnarcotic analgesics and therapeutic recommendations. NEW Evaluation of Outcomes chapter helps you achieve optimal treatment outcomes with information on topics such as the reasons for evaluating outcomes, outcome measurements for endodontic treatment, and the outcomes of vital pulp therapy procedures, non-surgical root canal treatment, non-surgical retreatment, and surgical retreatment. NEW Root Resorption chapter covers the early detection, diagnosis, and histological features of root resorption, as well as external inflammatory resorption, external cervical resorption, and internal resorption. NEW Iatrogenic Endodontics chapter addresses failed treatment scenarios with key information on the event itself, the etiology, soft and hard tissue implications and symptoms, and treatment options and prognosis; the events include cervico-facial subcutaneous emphysema, sodium hypochlorite accidents, perforations (non-surgical), inferior alveolar nerve injury, surgical, sinus perforation, instrument separation, apical extrusion of obturation materials, and ledge formation. NEW Vital Pulp Therapy chapter provides an overview of new treatment concepts for the preservation of the pulpally involved permanent tooth, covering topics such as the living pulp, pulpal response to caries, procedures for generating reparative dentin, indications and materials for vital pulp therapy, MTA applications, and treatment recommendations. NEW Bleaching chapter addresses procedures that can be utilized during and following endodontic treatment to eliminate or reduce any discoloration issues, reviewing internal and external bleaching procedures and their impact on pulpal health/endodontic treatment - with presentations of cases and clinical protocols.

Endodontic surgery has now evolved to endodontic microsurgery. It has revolutionized the way surgery is perceived and performed by using state-of-the-art equipment, instruments and materials that match the biological concepts with clinical practice. Coupled with the introduction of magnification through the use of the surgical operating microscope, miniaturised armamentarium, refined principles of soft and hard tissue management, use of tissue regenerative root-end filling materials and enhanced principles of wound closure and postoperative management, surgical endodontics has emerged as a highly predictable and relatively painless procedure.

This issue of Oral and Maxillofacial Surgery Clinics of North America is devoted to Dentoalveolar Surgery and is edited by Dr. Somsak Sittitavornwong. Articles will include: Preprosthetic Dentoalveolar Surgery; Management of Impacted Third Molars; Principles of Exodontia; Complications, Including Infections, in Dentoalveolar Surgery; Medical

Management of Patient undergoing Dentoalveolar Surgery; Trigeminal Nerve Injury; Oral Soft Tissue Grafting; Current Concepts of Periapical Surgery; Surgical Exposure of Impacted Teeth; Dental Trauma; Tooth Transplantation; Socket Grafting; Maxillary Sinus Diseases; and more!

This book offers up-to-date, readily understandable guidance on the materials and equipment employed in digital restorative dentistry and on the specific clinical procedures that may be performed using the new technologies. The key components of digital restorative dentistry – image acquisition, prosthetic/restorative design, and fabrication – are fully addressed. Readers will find helpful information on scanners, the software for prosthetic design, and the materials and technologies for prosthesis fabrication, including laser sintering, 3D printing, CAD/CAM, and laser ablation. The section on clinical procedures explains all aspects of the use of digital technologies in the treatment of patients requiring removable partial dentures, complete dentures, fixed partial prostheses, crowns, endodontics, and implant surgery and prosthodontics. The field of restorative and prosthetic dentistry is undergoing rapid transition as these new technologies come to play an increasingly central role in everyday dental practice. In bridging the knowledge gap that this technological revolution has created in the field of dentistry, the book will satisfy the needs of both dentists and dental students.

This book provides clear, concise guidance on a range of essential treatment strategies for the provision of reliable endodontic care. Practical clinical procedures are described step by step and key concepts emphasized with the aid of a wealth of high-quality illustrations and photographs. Examples of best practice are documented by means of clinical case examples, and the provision of concise tips and recommendations ensures that the reader will quickly be able to find solutions to any one of the myriad of endodontic challenges with which he or she may be confronted. In addition, the most relevant key literature is reviewed in order to support and reinforce the discussed clinical concepts. The described endodontic treatment strategies are all grounded in a sound scientific evidence base. The book should enable practitioners to manage any endodontic case from first principles and will be of value for both dental practitioners and endodontic trainees/specialists.

Well-known, international contributors share guidelines, expertise, and their clinical experience with contemporary technologies and procedures. Authoritative, visually detailed coverage provides a practical understanding of basic endodontic principles and procedures, including pulpal and periapical diseases and their management. Clinically-relevant organization reflects the order in which procedures are performed in clinical settings, enhancing your understanding of the etiology and treatment of teeth with pulpal and periapical diseases. Over 1,000 full-color illustrations ensure a clear, accurate understanding of procedures, and include radiographs and clinical photographs. Learning objectives help you meet the theoretical and procedural expectations for each chapter. More than 67 video clips located on the companion website demonstrate essential procedures.

This book focuses on hydraulic calcium silicate-based materials available in clinical dentistry, used as pulp capping materials, root canal sealers, root-end fillers, or root repair materials and which offer improved properties and easier clinical application compared with the original mineral trioxide aggregate. The book introduces the current classification of bioceramic materials and explains their characterization and their physicochemical and biological properties. Thereafter, the various clinical applications of these materials are discussed in depth with reference to the evidence base. The coverage includes applications in endodontic treatments and complications, traumatic dental injuries, management of the vital pulp in both dentitions, and regenerative endodontic procedures. Apart from presenting the latest research on hydraulic calcium silicate-based materials, Bioceramic Materials in Clinical Endodontics promotes an essential balance between basic laboratory and clinical research. It will thus be an important reference for materials science specialists, clinical researchers, and clinicians.

Microsurgical Endodontics, a term coined by the author himself, is a branch of Endodontics that allows to save dental elements otherwise lost and intended to be replaced with implants. The study of it means adding precious information to your knowledge in endodontics. There are many indications of intervention, always linked to the failure of a previous treatment and may include solutions that, once put into practice, can resolve clinically complicated situations in a single session. The text presents a complete examination of the diagnostic approaches, of the clinical procedures, of the necessary tools and of the possible complications that Microsurgical Endodontics involves. It presents a complete picture, both from the theoretical point of view and the practical aspect, in order to face every intervention with confidence, from the management of soft tissues to the early removal of a suture.

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. The book has been thoroughly updated to reflect new studies and advances in knowledge, particularly in the areas of next generation sequencing, microbial virulence, and the relationship of endodontic pathosis and systemic diseases. Written by the leading educators and researchers in the field, Endodontic Microbiology provides a state-of-the-art, contemporary resource for understanding and eradicating intracanal infection. Chapters thoroughly cover the growing body of knowledge about endodontic microbiology, including molecular analysis, periapical microbiology, and virulence. The science is situated within the clinical context, providing a complete resource for understanding and treating endodontic disease. Endodontic Microbiology is an essential reference for predoctoral and postgraduate endodontics students, practicing endodontists, and researchers in this area. Key features 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 issue of Dental Clinics of North America focuses on Endodontics, and is edited by Dr. Mo Kang. Articles will include: Endodontic Microbiology and Pathobiology: Current State of Knowledge; Conventional Endodontic Therapies: Innovation in Biomechanics; Endodontic Retreatments: Non-surgical and Surgical Approaches; Pain Management in Endodontics: Opportunity for New Therapeutics; Pulpal Management of Immature Teeth: Use of New Biomaterials for Conservative Therapies; Innovation in Bioactive Restorative Materials; Topic in Regenerative Endodontics; Biological Molecules for the Regeneration of the Pulp-dentin Complex; Cell Homing Approach in Endodontic Regeneration; Stem Cell Therapies for Oral and Systemic Diseases; Endodontic Treatment Outcomes, and more!

Endodontic Materials in Clinical Practice delivers a much-needed comprehensive and clinically oriented reference to the materials used in endodontic practice. It provides complete details on the properties of the materials required for specific techniques in order to help in the selection of the appropriate materials and improve patient outcomes. Comprehensive in scope and filled with helpful illustrations, the book covers endodontic materials used from the pulp to the root-end. In addition, the text considers the location and technique for each of the materials presented. Designed to be a practical and accessible

reference, the book is organised by specific clinical procedure. Presents an illustrated guide to all materials used in endodontic practice Focuses on the clinical application for each material Explains why specific materials are used Includes information on how to select the correct material Considers locations and techniques in making material decisions Written for specialist endodontists and residents, dental material specialists, post-graduate students, general dentists, and dentistry students, *Endodontic Materials in Clinical Practice* is an essential resource for selecting the right materials for specific techniques. Stay up on the latest research and techniques in endodontics with *Cohen's Pathways of the Pulp*, 12th Edition, SAE. Written by a team of internationally renowned experts and trusted for more than 40 years, this definitive guide covers the science, theory, and practice of endodontics. Full color illustrations and detailed radiographs guide readers through each step of endodontic care â " from diagnosis and treatment planning to proven techniques for managing pulpal and periapical diseases. This new twelfth edition also boasts the very latest evidence-based research and techniques, reorganized and condensed chapters, plus other features designed to help you locate important information quickly and easily. Extensive illustration collection includes over 2,000 full-color photos, line art, and radiographs to clearly demonstrate core concepts and reinforce the essential principles and techniques of endodontics. Diverse and respected contributor pool includes experts from many national- and international-based dental education programs. NEW! Updated content and new images incorporate the most recent developments in research and clinical endodontic techniques. NEW! Additional topics cover pulp biology, pathobiology, diagnosis, treatment planning, pain control, isolation, access, cleaning and shaping, obturation, restoration, assessment of outcomes, emergencies and surgery. NEW! Compliance with the Commission on Dental Accreditation Curriculum ensures that the needs of all dental programs are met. NEW! Reorganized sections now divide chapters by those covering clinical endodontics, those covering the biological basis of endodontics, and chapters which detail endodontics in private practice to make content easier for both clinicians and students to navigate. NEW! Condensed chapters remove unnecessary duplication of content across the text and make the physical text lighter and easier to use.

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 outcome.

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 ideal 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.

This book presents a multidisciplinary evidence-based approach to the management of teeth with lesions of endodontic-periodontal origin. The book opens by addressing the etiology and classification of endodontic-periodontal lesions, and demonstrates its relevance to the daily practice. Specific endodontic, prosthetic, and periodontal considerations that should be incorporated into clinical decision making and treatment planning are then discussed in detail. Subsequent chapters describe modern clinical procedures in periodontal regenerative treatment, describe vertical root fractures as an endodontic-periodontal lesion, examine treatment alternatives following the extraction of teeth with endodontic-periodontal lesions, and discuss possible biological complications in implant supported oral rehabilitation. Finally, a summary chapter considers the integration of clinical factors and patient values into clinical decision making. The text is accompanied by many figures presenting informative clinical examples. The authors are internationally renowned scientists and clinicians from the specialties of Endodontology, Periodontology, and Oral Rehabilitation. Owing to its multidisciplinary and comprehensive nature, the book will be relevant and interesting to the entire dental community.

This book describes practical, contemporary, and evidence-based surgical approaches for the treatment of diseases and conditions affecting the periodontium, including advanced forms of periodontal disease, gingival recession, and complex cases requiring interdisciplinary management. The book opens by identifying key considerations in periodontal surgery, for example with regard to diagnosis and prognosis, and by presenting decision trees that will be useful in daily practice. Cutting-edge resection and regeneration techniques for the treatment of periodontitis and mucogingival surgical procedures for the management of soft tissue deficiencies are then described and illustrated in detail, highlighting important tips and tricks as well as potential difficulties and complications. The final part of the book is devoted to interdisciplinary care, which is of key importance when periodontal surgery is indicated in the management of cases requiring orthodontic, endodontic, and restorative therapy. *Advances in Periodontal Surgery* will be of value for practitioners at all levels of experience as well as for students entering the field.

The authoritative reference that continues to present a systematic analysis of the scientific basis of endodontology The third edition of *Essential Endodontology: Prevention and Treatment of Apical Periodontitis* has been revised and updated to include the most recent developments in the field, maintaining its position as the major scientific treatise of apical periodontitis. Making an often-complex subject more digestible, the book explores the scientific basis of endodontology, adopting a systematic analysis of the available

clinical and laboratory evidence. Promoting apical periodontitis as a disease entity, the comprehensive third edition focuses on its biology and clinical features, enabling the reader to have a better understanding of its diagnosis, prevention and treatment. In addition to thorough updates and full colour illustrations throughout, a new chapter on regenerative endodontics has been added to this edition. Written with a focus on the scientific basis of endodontology Includes a new chapter on regenerative endodontics Presents the most current information and major developments in this fast-moving field Provides helpful learning outcomes in each chapter Contains full colour illustrations, enriching the text Features contributions from a noted panel of international experts, including new contributors from across the globe Regarded as a vital companion to the pursuit of excellence in postgraduate and specialist education, Essential Endodontology is an indispensable and accessible resource for practicing endodontists, postgraduate students of endodontology and those seeking professional certification in endodontology.

**CLINICAL ATLAS OF RETREATMENT 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.

Issues in Dentistry, Oral Health, Odontology, and Craniofacial Research: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Dentistry, Oral Health, Odontology, and Craniofacial Research. The editors have built Issues in Dentistry, Oral Health, Odontology, and Craniofacial Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Dentistry, Oral Health, Odontology, and Craniofacial Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Dentistry, Oral Health, Odontology, and Craniofacial Research: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

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.

Practical Osseous Surgery in Periodontics and ImplantDentistry is a step-by-step manual that guides readers throughosseous surgery procedures for treating periodontal issues as wellas for ensuring proper anchorage of dental implants. Dibart andDibart use hundreds of color photographs and succinct text toillustrate and explain the most recent advances and techniques forcreating the ideal bone structure for each patient. This bookcovers periodontal therapies including resective surgery,regenerative surgery, and bone recontouring, as well as implanttherapies, including socket perseveration, correcting bonydeficiencies, bone implants, minimally invasive surgicalprocedures, and the latest technologies such as Piezosurgery. Italso devotes chapters to growth-factor enhanced bone grafts,Piezocision, and restoration of the placed implant. Practical Osseous Surgery in Periodontics and ImplantDentistry focuses on clinical applications of surgicalprocedures, making it an essential tool for both specialists andgeneralists with an interest in implant dentistry and osseoussurgery procedures. Key features Step-by-step format for quick and clear reference Focuses on the clinical applications of osseous surgery indentistry Detailed discussion of surgical techniques, as well as usefulbackground information on surgical anatomy and structure ofbone Also includes information on use of

growth-factor enhanced materials Step-by-step Piezocision procedure Highly illustrated in full color throughout

The key factors to successful endodontic surgery--vision and precision--are now readily attainable, thanks to the advent of the operating microscope. As always, however, the success or failure of treatment ultimately depends on the skill and knowledge of the clinician. Drawing on more than 15 years of experience, the author of this step-by-step approach to endodontic microsurgery patiently guides the reader through each phase of treatment: anesthesia, flap design and execution, osteotomy window creation, curettage, hemostasis, apicoectomy, ultrasonic retrocavity preparation, drying, obturation, and suturing. He also offers an in-depth explanation of the features, parts, and accessories of the operating microscope for effective use in the dental office, along with discussions of presurgical and postsurgical considerations, periodontal regeneration techniques, endo-perio relationships, and placement of immediate implants when the tooth cannot be saved.

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

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

It incorporates the changes that have occurred in endodontic theory and practice in terms of materials, concepts and protocols. The presentation of the concepts and techniques has also been revised.

This book covers all aspects of implant dentistry, presenting up-to-date information that reflects the highest level of scientific evidence as presented in the specialized literature. Among the topics addressed by expert authors are the prognosis of natural tooth versus implant restorations, bone response to implant treatment, placement and loading time, implant design and length, platform design, implant abutments, prosthodontic treatment, reconstructive surgery, and periimplantitis. The amount of data available for the clinician working in the field of implantology is huge and constantly increasing. The task of remaining abreast of the latest evidence and applying it effectively in clinical practice is further hindered by the fact that many scientific papers make contradictory claims and contain methodological flaws and biases that generate confusion and lack of reliability. Against this background, Evidence-Based Implant Dentistry will serve the reader as a dependable and scientifically supported guide to current implant treatment and key issues in the field.

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