

Opmi Pico Karl Zeiss Operating

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.

This book introduces transplantation in rodents as useful tools used in studying transplant immunobiology. Several solid organs (kidney, heart, liver) transplant models in rodents are described in this book. It can help surgical quality and save surgical time. The first part of the book provides a review of rodent transplant tolerance induction, the role of gender and body-weight in rodent transplantation, surgical instruments and organ preservation solutions. In the second part of the book, various organ-transplantation techniques in rodents are discussed in individual chapters. This book presents uniform surgical procedures in mouse and rats, which produce comparable data, efficiently enhancing the translational research from bench to non-human primates and beyond. It will be of great value to transplant researchers, research fellows and clinicians in many surgical specialties.

Since the first successful digit replantation in Japan in 1965, the field of microvascular surgery has rapidly progressed throughout Japan and the world. *Experimental and Clinical Reconstructive Microsurgery* draws on the experience of a large number of experts in the areas of experimental microsurgery, limb and digit replantation, and composite tissue transplantation. The result is an extensive monograph covering the history and future prospects of microsurgery, essential microsurgical techniques for laboratory research, and the fundamental methods of harvesting tissues and their grafting techniques. Because the field of microsurgery includes a broad range of clinical disciplines, this book is a valuable resource to all orthopedic, traumatic, and plastic surgeons with an interest in microsurgery.

Rodent Transplant Medicine Springer

Kniha p?ináší ucelený a aktuální pohled na diagnostiku a lé?bu nitroušních onemocn?ní a jejich symptom?. V mezioborové oblasti otoneurologie a tinitologie se ?tená? seznámí s nejnov?jšími diagnosticko-terapeutickými postupy.

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.

Adhesives: Principles and State of the Art. -- Adhesives: Dos and Don'ts. -- Restorative Materials for the Direct Technique. -- The Key for the Indirect. -Technique. - New Concepts of Minimally Invasive Preparations: An SI/STA Concept. --Preparation and Restoration of Small Interproximal Carious Lesions. -- Adhesion in Preventive Dentistry. -- Adhesion in Pediatric Dentistry. --Strength of Fragment-Bonded Teeth. -- Bonding: The Ultimate Restoration for Tooth Fracture? -- Biological Bonding: Periodontal and Peri-Implant Attachment. -- Exploring the Layering Concepts for Anterior Teeth. -- Composite Resin. --Restorations on Posterior Teeth. -- Prosthodontics of the Future: Cementing or Bonding? -- Clinical Application of Ceramic Bonded Restorations. -- Restoration of the Endodontically Treated Tooth: Adhesion vs. Mechanical Retentio.

This book emphasizes the tremendous value of pinhole scintigraphy in diagnosing nearly the whole spectrum of bone and joint diseases. Pinhole scintigraphy discloses anatomic and pathologic as well as chemical alterations in greater detail, permitting analytical interpretation and raising the sensitivity as well. Infections, nonspecific bone inflammation, rheumatoid arthritis, seronegative spondyloarthropathies, rheumatic disorders, metabolic and endocrine bone diseases, trauma, and both primary tumors and metastasis can be effectively and specifically examined. By improving sensitivity, many false negative readings can be avoided in early bone metastasis, synovitis, anthesopathies, bone contusion, and the like.

Contains the proceedings of the 12th- annual meeting of the Japan Neurosurgical Society.

This superbly illustrated book provides a comprehensive overview of guided endodontics, a technology-driven, contemporary treatment approach that represents a paradigm shift in endodontics. Guided endodontics is now the proven, safe, predictable and, clinically, the most effective method for management of calcified root canals and root-end resection surgeries. This book covers detailed step-by-step digital treatment planning and the clinical application of static guides and dynamic navigation systems for, both, surgical and non-surgical endodontic treatment. In essence, this novel technology utilizes preoperative CBCT scans and intra-oral 3D scans as well as uniquely developed special software, for virtual planning of the endodontic treatment. This book delineates 3D printing, CBCT, digital impression systems, static guide designing with different software and clinical application of static and dynamic navigation in endodontics and much more. The concluding chapter addresses the future trends in 3D guidance in endodontics, in particular, and dentistry in general.

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.

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.

Mineral trioxide aggregate (MTA) was developed more than 20 years ago to seal the pathways of communication of the root canal system. It's currently the preferred material used by endodontists because of its superior properties such as its seal and biocompatibility that significantly improves outcomes of endodontic treatments. Dr. Torabinejad, who was the principle investigator of the dental applications of MTA, and leading authorities on this subject provide a clinically focused reference detailing the properties and uses of MTA, including vital pulp therapy (pulp capping, pulpotomy), apexification, pulp regeneration, repair of root perforations, root end filling and root canal filling. Line illustrations and clinical photographs show proper technique. An accompanying website features photographs and video presentations for selected procedures using MTA. Mineral Trioxide Aggregate: Properties and Clinical Applications is an ideal book for dental students and endodontic residents learning procedures for the first time as well as practicing dentists and endodontists who would like to improve outcomes of endodontic treatments.

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

Dentistry is a branch of medicine with its own peculiarities and very diverse areas of action, which means that it can be considered as an

interdisciplinary field. Currently the use of new techniques and technologies receives much attention. Biodental Engineering III contains contributions from 13 countries, which were presented at BIODENTAL 2014, the 3rd International Conference on Biodental Engineering (Póvoa do Varzim, Portugal, 22-23 June 2014). They provide a comprehensive coverage of the state-of-the art in this area, and address issues on a wide range of topics: – Aesthetics – Bioengineering – Biomaterials – Biomechanical disorders – Biomedical devices – Computational bio- imaging and visualization – Computational methods – Dental medicine – Experimental mechanics – Signal processing and analysis – Implantology – Minimally invasive devices and techniques – Orthodontics – Prosthesis and orthosis – Simulation – Software development – Telemedicine – Tissue engineering – Virtual reality Biodental Engineering III will be of interest to academics and others interested and/or involved in biodental engineering.

Zahnwurzel / Anatomie / Wurzelkanal.

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 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.

Vascular Surgical Techniques describes a number of complex and controversial operations performed by the most eminent vascular surgeons from around the world. This book focuses on operations in which special maneuvers or aspects of technique are important in determining a successful outcome, such as arterial surgery that includes procedures for revascularization of the brain, operations on the larger arteries, and microvascular surgery. The problems associated with aortic surgery and its important branches to the kidneys and viscera are also covered. This text likewise considers surgery to the profunda femoris artery and lower limb revascularization that involves a bypass technique of one sort or another. The methods of performing one of surgery's main controversies that concerns the most effective way to reconstruct the femorodistal segment are also deliberated. This publication is intended for practicing general and vascular surgeons, but is also valuable to general surgical trainees with an interest in the field of vascular surgery.

This text addresses all aspects of patient evaluation and care. This includes new findings in imaging that provide a better understanding of the extent of the lesion as well as its relationship with critical neuroanatomic function. The evolution of intraoperative imaging, functional brain mapping, and technology to identify tumor from brain is covered. This has significantly improved the ability of surgeons to more safely and aggressively remove tumors. More importantly, a better understanding of tumor biology and genomics has created an opportunity to significantly revise tumor classification and better select optimal therapy for individual patients. The text covers novel and innovative treatment options including

immunotherapy, tumor vaccines, antiangiogenic agents, and personalized cancer treatment. In addition, novel agent delivery techniques are covered to offer the potential for increasing the effectiveness of treatment by delivering active agents directly where they are needed most. Malignant Brain Tumors: State-of-the-Art Treatment provides a comprehensive overview of treatment for malignant gliomas, and will prove useful by updating physicians on new therapeutic paradigms and what is on the horizon for the near future. This text will be informative for surgeons, oncologists, neurologists, residents and students who treat these patients, as well as those who are training for a career in managing patients with these challenging tumors.

[Copyright: 8f778c1dc06fb83628664265519f0067](#)