Robot Assisted Endoscopic Surgery Researchgate

Manual of Endoscopic Sinus Surgery Natural Orifice Translumenal Endoscopic Surgery (NOTES) Computer-integrated Surgery Transnasal Endoscopic Skull Base and Brain Surgery Healthcare Systems and Health Informatics Functional Endoscopic Sinus Surgery Key Topics in Surgical Research and Methodology Keyhole Concept in Neurosurgery Environmental Pharmacology of Diclofenac Handbook of Robotic and Image-Guided Surgery Endoscopic Transnasal Anatomy of the Skull Base and Adjacent Areas The Perfect Sleeve Gastrectomy Endoscopic Sinus Surgery Endoscopy Surgery Endoscopic Spine Surgery Research in Nursing Advances in Endoscopic Surgery Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration (EBUS-TBNA): A Practical Approach Stereotactic Body Radiation Therapy Liver Disease and Surgery Hernia Surgery A Manual of Minimally Invasive Gynecological Surgery Practical Tips in Urology Micro-endoscopic Surgery of the Paranasal Sinuses and the Skull Base Rhinology Robotics in General Surgery Research in Nursing, Midwifery and Allied Health: Evidence for Best Practice Robot Analysis Surgery of Peripheral Nerves Endoscopic Endonasal Transsphenoidal Surgery An Anatomic Approach to Minimally Invasive Spine Surgery The Cambridge Illustrated History of Surgery Thesis Writing for Master's and Ph.D. Program Intraoperative Imaging and Image-Guided Therapy Recent Advances in Laparoscopic Surgery The SAGES Manual of Pediatric Minimally Invasive Surgery Small Animal Laparoscopy and Thoracoscopy Advances in Service and Industrial Robotics Atlas of Metabolic and Weight Loss Surgery

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Endoscopic Endonasal Transsphenoidal Surgery Mar 31 2020 Currently, surgical management provides the definitive treatment of choice for most pituitary adenomas, craniopharyngiomas and meningiomas of the sellar region. The elegant minimally invasive transnasal endoscopic approach to the sella turcica and the anterior skull base has added a new dimension of versatility to pituitary surgery and can be adapted to many lesions in the region. In this multi-author book with numerous color illustrations the main aspects of the endonasal endoscopic approach to the skull base are presented, starting with a clear description of the endoscopic anatomy, the panoramic view afforded by the endoscope and the development of effective instruments and adjuncts. After the diagnostic studies, the strictly surgical features are considered in detail. The standard technique is described and particular aspects are treated, including the new extended approaches to the cavernous sinus, spheno-ethmoid planum and clival regions.

Transnasal Endoscopic Skull Base and Brain Surgery Jul 28 2022 "The diagnosis and treatment of the diseases of the skull base have changed dramatically in the past few years, transforming the fields of neurosurgery and otolaryngology-head and neck surgery. The increasing advances in these fields have addressed the ENT physicians and neurosurgeons to keep up with the expanding information in the exciting area of skull base. By publishing this book, we are presenting a multidisciplinary approach to the lesions of the skull base. We bring chapters written by the most experienced groups around the world with both, basic information and the latest advances in macro and surgical anatomy, radiology, anesthesia, endocrinology, and all modalities of transnasal endoscopic assisted surgical approaches to the anterior, middle, posterior, zygomatic and infra temporal fossae. In addition, the extended approaches such as to the craniocervical junction and petrous apex are also addressed. Especial emphasis is also given to the reconstruction techniques"--Provided by publisher.

Surgery of Peripheral Nerves May 02 2020 Surgery of Peripheral Nerves: A Case-Based Approach is a concise, single-volume reference for managing the entire spectrum of peripheral nerve pathologies, from brachial plexus injuries to lower extremity nerve entrapments. It features 57 cases that are grouped in sections by anatomic location of the problem to aid rapid reference to topics of interest, with one additional section that addresses the management of nerve tumors, painful nerve conditions, and other injuries and syndromes. Each chapter provides concise descriptions of case presentation, diagnosis, anatomy, characteristic clinical presentation, differential diagnosis, diagnostic tests, management options, and surgical treatment.Highlights: Case-based format thoroughly prepares the reader for managing various problems in the clinical setting Diagnostic guidelines and management strategies from leading experts in the field of peripheral nerve surgery enable clinicians to confidently handle each stage of patient care Pearls and Pitfalls at the end of each chapter highlight critical aspects of treatment and are ideal for at-a-glance review prior to surgery More than 150 illustrations demonstrate key concepts Suggested readings with brief summaries provide valuable reviews of the literature This problem-oriented textbook is ideal for clinicians, fellows, and residents in neurosurgery, orthopaedics, plastic surgery, and hand surgery. It also serves as an indispensable reference for specialists in physical medicine and rehabilitation, neurology, emergency medicine, pain management, and physical and occupational therapy.

A Manual of Minimally Invasive Gynecological Surgery Dec 09 2020 Edited by an internationally recognised team of gynaecology experts, A Manual of Minimally Invasive Gynecological Surgery is a highly illustrated resource for obstetrics and gynaecology professionals, presenting current techniques in the field. Enhanced by 300 full colour images, illustrations and tables, and complemented by a DVD-ROM providing an ABC of hysterectomy and guidance on myomectomy, A Manual of Minimally Invasive Gynecological Surgery is an authoritative and comprehensive guide to this area of surgery.

Rhinology Sep 05 2020 Drs. David Kennedy and Peter Hwang bring together the expertise of a whos who of rhinology specialists in Rhinology: Diseases of the Nose, Sinuses, and Skull Base, a major reference covering current knowledge on the pathogenesis as well as the medical and surgical management of sinonasal and skull base disorders. It offers in-depth coverage of all key topics in the subspecialty of rhinology, ranging from rhinosinusitis to endoscopic skull base reconstruction and more. Key Features: A substantial section on surgical methods for treating skull base disorders, including endoscopic skull base surgery A DVD containing 21 professionally produced videos, narrated by Dr. Kennedy, and showing various contributors demonstrating the key pearls and pitfalls of surgical techniques discussed in the book One hundred detailed color illustrations by medical artist Christine Gralapp, along with over 600 photos and x-rays Comprehensive coverage of sinonasal anatomy and physiology, as well as the medical and surgical aspects of sinonasal disease and skull base tumors This multimedia reference is the definitive go-to guide for rhinology residents as well as a comprehensive reference for practicing otolaryngologists and neurosurgeons who wish to expand their surgical expertise, develop a broader armamentarium of techniques, and successfully manage their patients with sinonasal and skull base disorders.

Hernia Surgery Jan 10 2021 This textbook provides a state-of-the-art reference in the rapidly changing field of hernia surgery. With contributions by key opinion leaders in the field, this book describes the latest trends and detailed technical modifications for both routine and complex hernias. The reader will gain unique insights into robotic and laparoscopic repairs, anterior and posterior component separations, reconstructions in the setting of contamination, enterocutaneous fistulas and loss of abdominal domain. Important contributions from key reconstructive plastic surgeons detail modern trends on how to deal with complex skin and soft tissue challenges. The textbook provides unparalleled step-by-step instructions to perform both routine and complex repairs by incredible illustrations, intra-operative color photographs and a unique video collection of procedures performed by today's top hernia surgeons. As a comprehensive and most up-to-date reference to modern treatment algorithms, trends in prosthetic science and technique selections, Hernia Surgery: Current Principles will be an invaluable resource to all residents and practicing general, plastic, and trauma surgeons to help them succeed in the field of Hernia surgery.

Practical Tips in Urology Nov 07 2020 Practical Tips in Urology is a compact, illustrated reference which provides the reader with practical tips and advice in managing day-to-day urological issues encountered in a clinical setting. This book draws on practical experience and offers useful information that is often lacking in didactic textbooks of urology and in journal articles. Practical Tips in Urology provides tips in dealing with urological emergencies, elective surgery and common outpatient consultation problems, among other things. Written by experts in the field, Practical Tips in Urology is key reading for all practicing urologists and residents in training.

Key Topics in Surgical Research and Methodology Apr 24 2022 Key Topics in Surgical Research and Methodology represents a comprehensive reference text accessible to the surgeon embarking on an academic career. Key themes emphasize and summarize the text. Four key elements are covered, i.e. Surgical Research, Research Methodology, Practical Problems and Solutions on Research as well as Recent Developments and Future Prospects in Surgical Research and Practice.

The Cambridge Illustrated History of Surgery Jan 28 2020 Written in a lively and engaging style, this book provides a fascinating introduction to the development of surgery through the ages. Heavily illustrated in colour, The Cambridge Illustrated History of Surgery is the only serious choice for a reader wanting a lively and informative single-volume introduction to surgical history.

Research in Nursing, Midwifery and Allied Health: Evidence for Best Practice Jul 04 2020 Research in Nursing, Midwifery and Allied Health provides students with the theory to understanding research frameworks in nursing and allied health. Using practical examples, this text applies the theory to practice in a number of updated cases that reflect students

across the nursing, midwifery and allied health areas. The research framework introduced in the book has three different intersecting purposes: (i) to show students how to critically appraise existing research (ii) to show students how the results of research can be used in clinical practice to inform patient care (iii) to conduct their own research. The sixth edition includes more content than ever before linking research to evidence-based practice, helpfully sign posted throughout the text in new evidence-based practice boxes. Research in Nursing, Midwifery and Allied Health supports instructors as they guide new nursing researchers through the entire research process in a practical and easy to read step-by-step guide. The new four-colour design will be a welcome addition to Cengage's suite of Nursing texts, as well as new CourseMate Express website and Search Me! Nursing, giving students unique access to current journals and news articles specific to nursing and health research.

Endoscopic Sinus Surgery Oct 19 2021

Natural Orifice Translumenal Endoscopic Surgery (NOTES) Sep 29 2022 Natural Orifice Translumenal Endoscopic Surgery (NOTES) has the potential to change the practice of surgery as we know it. Proponents say advantages over laprascopic surgery include lower anesthesia requirements, faster recovery and shorter hospital stays, avoidance of transabdominal wound infections, less immunosuppression, better postoperative pulmonary and diaphragmatic function, and the potential for "scarless" abdominal surgery. In this text/video set, the leading world expert in NOTES shares his experience. Three sections cover fundamentals, current clinical applications and techniques, and future perspectives.

Endoscopic Transnasal Anatomy of the Skull Base and Adjacent Areas Dec 21 2021 Become familiar with the key anatomic "corridors" in the skull base, the sinonasal tract, and adjacent areas to guide and greatly expand your endoscopic surgical competence. Highlighting the most recent experience from seven top leaders and innovators in the field, this seminal new work presents detailed topographic anatomy of the skull base and adjacent areas in a way not previously seen before. The result is a multidisciplinary atlas merging anatomy, otolaryngology, neurosurgery, and radiology, so as to facilitate creation of a mental "virtual reconstruction" of the complete approach and operative situs. The result is a greatly extended range of surgical possibilities into previously uncharted territory using endoscopic technology. Key Features: Provides the basis for cultivating a firm and confident understanding of the 3D anatomy of this intricately complex region Emphasizes the ability of the endoscopic surgeon to integrate CT and MRI findings into the surgical planning process A logical and modular organization of the contents intends to make for easy correlation with the surgical literature Brilliant step-by-step presentation of dissections using cadavers, helping readers to fully understand all the anatomical nuances Numerous previously unpublished approaches covered here for the first time in a book, step by step Endoscopic Transnasal Anatomy of the Skull Base and Adjacent Areas is an indispensable resource for fellows and specialists in neurosurgery and ENT surgery wishing to widen their competence in endoscopic skull base surgery.

The Perfect Sleeve Gastrectomy Nov 19 2021 Sleeve gastrectomy (SG) is the most common bariatric procedure performed worldwide, more than 55% of bariatric procedures are sleeve gastrectomies. This title will be comprehensive and detail all the approaches used in performing sleeve gastrectomy, offering readers all the tools needed to perform the perfect SG. Obesity has become a major global problem that continues to spread in both developed and developing countries. It costs more than any other health problem due to its prevalence and its many costly complications such diabetes and heart disease as well as in disability and loss of productivity. While prevention of obesity is the best approach for the future, the current problem lies with managing those who are already obese or morbidly obese who constitute close to two thirds of the population in many countries such as the US. Diet, exercise, and behavioral change are the mainstays for any meaningful attempt for significant and durable weight loss. Unfortunately, for those who are morbidly obese, these measures alone almost consistently fail to achieve acceptable weight loss in the long term. Today, bariatric surgery is the only evidence-based treatment for morbid obesity with a low complication rate and acceptable results in the long-term for both weight loss and resolution of comorbidities. Despite the data, the acceptance of these operations was limited due to fear of what was perceived as major surgery. Today, applying minimally invasive technology to these complex operations made them more acceptable to patients due to decreased pain, faster recovery and fewer overall complications. This, in addition to improved outcomes as we went further along the learning curve, has made these operations more common and helped growing the field to be an independent specialty for surgeons and perhaps a new specialty for gastroenterologist. In these exciting times, the 5 international editors (one of them, Michel Gagner, is the creator of the SG) wanted to capture the global standards of practice at a time of change, excitement, and lots of controversy, regarding this common procedure. We an aim to shed light on best practices across the borders, the intention of this volume is to develop a reliable reference to guide the practicing physician anywhere in the world, and from whatever specialty (surgeon, gastroenterologist or endoscopist) to navigate through the many current options of therapy in this rapidly changing field. We also aim to provide high quality illustrations and high-definition videos of these techniques to go with the didactic chapters written by thought leaders. In this book we will focus first on the clinical problems of the patients and the indications for the sleeve. Regarding the technical aspects, we will describe the technique step-by-step (including videos) and also we will detail the staplers, its size and different colors -- and the different sizes of the bougies, and also special description of the reinforcement of the sutures after the sleeve. We know that mainly the SG has a restrictive function, but we will also describe the metabolic effects of this surgery. Then we will describe the nontraditional SG techniques, such as the endoscopic approach, staples sleeve and robotic technologies. Bariatric surgery has very few rates of complications, but when complications happen, they are severe. Thus we will describe how to identify them immediately and also the different approaches to treat them by endoscopy, laparoscopy and percutaneous image guided surgery. A chapter will also cover revisional surgery and the different revisional procedures, not only from sleeve to other procedures but also from other procedures to SG. For the last section,we will include the lessons learned from almost 20 years now since the SG was first described, providing an overview on how we imagine the future will be for the most common bariatric procedure performed worldwide. This title will be an ideal reference for general surgeons, bariatric surgeons, endoscopists and gastroenterologists with interest in obesity management as well as researchers with interest in obesity. Residents and fellows training in general and bariatric surgery as well as in endoscopy. Dietitians, diabetes specialist, psychotherapists with interest in obesity management as well as hospital administrators and quality officers in hospitals with bariatric practices will also benefit by this book.

Intraoperative Imaging and Image-Guided Therapy Nov 27 2019 Image-guided therapy (IGT) uses imaging to improve the localization and targeting of diseased tissue and to monitor and control treatments. During the past decade, image-guided surgeries and image-guided minimally invasive interventions have emerged as advances that can be used in place of traditional invasive approaches. Advanced imaging technologies such as magnetic resonance imaging (MRI), computed tomography (CT), and positron emission tomography (PET) entered into operating rooms and interventional suites to complement already-available routine imaging devices like X-ray and ultrasound. At the same time, navigational tools, computer-assisted surgery devices, and image-guided robots also became part of the revolution in interventional radiology suites and the operating room. Intraoperative Imaging and Image-Guided Therapy explores the fundamental, technical, and clinical aspects of state-of the-art image-guided therapies. It presents the basic concepts of image guidance, the technologies involved in therapy delivery, and the special requirements for the design and construction of image-guided operating rooms and interventional suites. It also covers future developments such as molecular imaging-guided surgeries and novel innovative therapies like MRI-guided focused ultrasound surgery. IGT is a multidisciplinary and multimodality field in which teams of physicians, physicists, engineers, and computer scientists collaborate in performing these interventions, an approach that is reflected in the organization of the book. Contributing authors include members of the National Center of Image-Guided Therapy program at Brigham and Women's Hospital and international leaders in the field of IGT. The book includes coverage of these topics: - Imaging methods, guidance technologies, and the therapy delivery systems currently used or in development. - Clinical applications for IGT in various specialties such as neurosurgery, ear-nose-and-throat surgery, cardiovascular surgery, endoscopies, and orthopedic procedures. - Review and comparison of the clinical uses for IGT with conventional methods in terms of invasiveness, effectiveness, and outcome. - Requirements for the design and construction of image-guided operating rooms and interventional suites.

Functional Endoscopic Sinus Surgery May 26 2022 The technique of using fiber-optic instrumentation for sinus surgery is becoming more popular. By going through the nose, there are far fewer complications than when traditional open surgical techniques were used. The authors are respected in the field of otolaryngology and this reference manual should be useful to both trainees and practitioners.

Endoscopy Sep 17 2021 Endoscopic techniques are widely used for screening, diagnostic and therapeutic maneuvers in all groups of patients and for a large spectrum of complaints. The availability of basic iterations of endoscopic techniques made screening programs for various diseases viable in most parts of the world, while the advent of modern techniques opens new perspectives for rapid and correct diagnosis. Going beyond normal human vision, innovative techniques opened the prospect of in-situ pathology. Endoscopic ultrasound has made incredible progress in recent years. Reaching the smaller orifices by endoscopy was a major step forward in the surveillance of previously inaccessible lesions. Investigatory techniques were complemented by advances in therapy, with novel applications in many major areas of medicine.

Robotics in General Surgery Aug 05 2020 Robotics in General Surgery provides a comprehensive review of the current applications of the robotic platform in all the general surgery subspecialties. Additionally, for each subspecialty it serves as a procedure-oriented instruction manual in terms of technical details of procedures, including fundamentals of robot positioning and trocar placement, step-by-step description of procedures, comprehensive discussions of advantages, limitations, indications, and relative contraindications of using the robotic approach. The text also discusses the challenges and steps to overcoming these challenges in transitioning from a minimally invasive to a robotic practice/surgeon. Lastly, this volume addresses emerging technology in robotics and the impact that the robotics platform will have on not only practice of surgery, but also in the education of surgeons at all levels. Written by experts in the field of robotic surgery, Robotics in General Surgery is a valuable resource for general surgeons of all levels including residents, fellows and surgeons already in practice.

Handbook of Robotic and Image-Guided Surgery Jan 22 2022 Handbook of Robotic and Image-Guided Surgery provides state-of-the-art systems and methods for robotic and computer-assisted surgeries. In this masterpiece, contributions of 169 researchers from 19 countries have been gathered to provide 38 chapters. This handbook is 744 pages, includes 659 figures and 61 videos. It also provides basic medical knowledge for engineers and basic engineering principles for surgeons. A key strength of this text is the fusion of

engineering, radiology, and surgical principles into one book. A thorough and in-depth handbook on surgical robotics and image-guided surgery which includes both fundamentals and advances in the field A comprehensive reference on robot-assisted laparoscopic, orthopedic, and head-and-neck surgeries Chapters are contributed by worldwide experts from both engineering and surgical backgrounds

Recent Advances in Laparoscopic Surgery Oct 26 2019 The implementation of laparoscopy has revolutionized surgery over the past few years, incorporating significant benefits for the patient. However, this evolution has also entailed many technical obstacles for surgeons. This book is for readers wanting to learn more about recent surgical techniques and technologies. Topics cover novel sophisticated approaches for single-site surgery, natural orifice transluminal endoscopic surgery, and transanal surgery, among others. Also included are reviews of new innovative surgical devices, robotic platforms, and methodological guidelines for improving surgical performance and surgeon ergonomics.

Endobronchial Ultrasound-Guided Transbronchial Needle Aspiration (EBUS-TBNA): A Practical Approach Apr 12 2021 This high-yield reference book focuses on the clinical, technical, and pathological aspects of endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA). Its reviews cover all aspects of EBUS-TBNA, including the clinical perspective, technical aspects of the procedure, and cytomorphology of common and uncommon entities, as well as highlights diagnostic challenges. Each chapter features a multitude of full-color high-resolution images and includes key references to the current literature in the field. Additionally, reference tables and informative figures highlight the salient points. The book is unique in that it is written by experienced thoracic surgeons, pulmonary medicine physicians, and cytopathologists who use EBUS-TBNA in a large medical center. This publication is of interest to individuals learning and practicing cytopathology, in addition to clinicians practicing pulmonary/thoracic medicine or surgery. In short, it provides important pearls of wisdom to create a comprehensive reference for all physicians involved with EBUS-TBNA.

Healthcare Systems and Health Informatics Jun 26 2022 This book covers the fundamentals of IoT and healthcare systems for carrying out system architectures, protocols, wearable devices, and interoperability. It explores major challenges in artificial intelligence (AI) and smart computing in resource-constrained IoT-based applications along with cost, energy efficiency, and the availability of quality service. Healthcare Systems and Health Informatics: Using Internet of Things explores the role of AI and smart computing in health informatics and healthcare with an emphasis on clinical data management and analysis for precise prediction and prompt action. It presents cutting-edge tracking, monitoring, real-time assistance, and security for IoT in healthcare and broadly discusses wearable sensors and IoT devices and their role in smart living assistance. The book goes on to describe a system model and architecture for a clear picture of energy conservation‐based IoT in healthcare and explains the challenges and opportunities with IoT-based healthcare industries. A study of the threats and impacts, along with the need for information security, is also included. The chapters are written by experts in the field, and this book provides a comprehensive description of the important aspects of IoT and health from a beginner- to advanced-level perspective and is ideal for researchers, academicians, students, persons in industry, technologists, and entrepreneurs.

Manual of Endoscopic Sinus Surgery Oct 31 2022 By focusing on how to establish clear indications for surgery and how to improve surgical approaches in endoscopic paranasal sinus surgery, this practical operating manual appeals to the beginner as well as to the practicing surgeon. Techniques covered range from simple procedures to the most advanced applications, including tumor and trauma surgery, and procedures involving the anterior skull base.Based on their clinical and considerable teaching experience, the authors have chosen an approach that responds directly to patients concerns and which is set within a simple framework based on the questions of Who? When? Why? and How?:Who? offers guidelines on patient selection and dealing with patients' expectations,When? discusses optimizing the diagnosis and medical management as well as the timing of surgery,Why? evaluates realistic surgical goals with regard to patients' symptoms and their quality of life,How? describes surgical techniques step-by-step, explains terminology, discusses surgical modifications and alternatives, and offers guidelines for the management of complications.Nearly 1,000 illustrations of exceptional quality and a 3-hour DVD of surgical procedures and interviews with patients supplement the step-by-step instructions and practical tips in the text.

Computer-integrated Surgery Aug 29 2022 In Computer-Integrated Surgery leading researchers and clinical practitioners describe the exciting new partnership that is being forged between surgeons and machines such as computers and robots, enabling them to perform certain skilled tasks better than either can do alone.The 19 chapters in part I, Technology, explore the components -- registration, basic tools for surgical planning, human-machine interfaces, robotic manipulators, safety -- that are the basis of computer-integrated surgery. These chapters provide essential background material needed to get up to speed on current work as well as a ready reference for those who are already active in the field.The 39 chapters in part II, Applications, cover eight clinical areas -- neurosurgery, orthopedics, eye surgery, dentistry, minimal access surgery, ENT surgery, craniofacial surgery, and radiotherapy -- with a concluding chapter on the high-tech operating room. Each section contains a brief introduction as well as at least one "requirements and opportunities" chapter written by a leading clinician in the area under discussion.

Thesis Writing for Master's and Ph.D. Program Dec 29 2019 This book on Thesis Writing for Master‐s and Ph.D. program focuses on the difficulties students encounter with regard to choosing a guide; selecting an appropriate research title considering the available resources; conducting research; and ways to overcome the hardships they face while researching, writing and preparing their dissertation for submission. Thesis writing is an essential skill that medical and other postgraduates are expected to learn during their academic career as a mandatory partial requirement in order to receive the Master‐s degree. However, at the majority of medical schools, writing a thesis is largely based on self-learning, which adds to the burden on students due to the tremendous amount of time spent learning the writing skills in addition to their exhausting clinical and academic work. Due to the difficulties faced during the early grooming years and lack of adequate guidance, acquiring writing skills continues to be a daunting task for most students. This book addresses these difficulties and deficiencies and provides comprehensive guidance, from selecting the research title to publishing in a scientific journal.

Stereotactic Body Radiation Therapy Mar 12 2021 "Kavanaugh (radiation oncology, University of Colorado Comprehensive Cancer Center) and Timmerman (image guided stereotactic radiation therapeutics, University of Texas Southwestern Medical Center) demonstrate the power of stereotactic body radiation therapy (SBRT) as a weapon in the cancer-fighting arsenal, and give advice on building a clinical SBRT program. Intended as a primer for radiation oncologists, physicists, radiobiologists, dosimetrists, and other members of the cancer team, and the book covers the radiobiology, physics, and dosimetry of SBRT, and gives practical details on procedures for specific conditions. B&w photos and medical images are included. Annotation: 2004 Book News, Inc., Portland, OR (booknews.com)"--[source inconnue].

Micro-endoscopic Surgery of the Paranasal Sinuses and the Skull Base Oct 07 2020 The diagnosis and treatment of the diseases of the nose, paranasal sinuses and skull base have changed dramatically in the past few years, transforming rhinol ogy in one of most exciting and attractive medical fields. The increasing advance in this area has addressed the ENT physicians to keep up with the expanding information in the high tech area of sinus surgery and its expansion into skull base surgery. The intention of this book is to present in a unique way basic information on Anatomy, Endoscopy, Rhinomanometry, Imaging, Allergy, Nasosinus Infection, and Polyposis followed by by clinical and surgical chapters written by some of the most experienced rhinosurgeons around the world. We belive that this book will be of value for all levels of Otolaryngology, from house officers to experienced surgeons and, although principally for Otolaryngologists, Radiologists, Patholo gists, Maxillofacial surgeons, Ophthalmologists, Neurosurgeons, and Infectious Diseases Specialists may find the book of value because of its overlap with their interests. We would like to show that, both from the technical and conceptual points of view, success can be achieved using different techniques and philosophies. Cer tainly, both endoscopic instrumentation and the surgical microscope have proved to be of great assistance in nasal and sinus surgery, and now image systems are providing further progress.

Small Animal Laparoscopy and Thoracoscopy Aug 24 2019 The newly revised Second Edition of Small Animal Laparoscopy and Thoracoscopy is a rigorous update of the first book to provide comprehensive and current information about minimally invasive surgery in dogs and cats. With a focus on techniques in rigid endoscopy, the book also includes guidance on additional surgeries outside the abdomen and chest. New chapters describe newly developed surgical techniques, while existing chapters have been thoroughly updated. The authors include detailed stepwise instructions for each procedure, including clinical photographs. Pre-operative considerations, patient positioning, portal placement, and postoperative care are also discussed, with key points of consideration outlined for each surgery. Purchasers of the book will also receive access to a companion website featuring video clips of the fundamental skills and surgical techniques described in the resource. The book also offers: An introduction to laparoscopic suturing and knot tying with accompanying video tutorials A thorough introduction to the equipment used in laparoscopic and thoracoscopic veterinary surgeries, including imaging equipment, surgical instrumentation, energy devices, and stapling equipment Clear explanations of foundational techniques in laparoscopy, including laparoscopic anesthesia, access techniques, contraindications, complications, and conversion Robust descriptions of fundamental techniques in thoracoscopy, including patient positioning, port placement, contraindications, complications, and conversion Discussions of a wide variety of laparoscopic and thoracoscopic surgical procedures Small Animal Laparoscopy and Thoracoscopy is an essential reference for veterinary surgeons, veterinary internal medicine specialists and residents, and small animal general practitioners seeking a one-stop reference for minimally invasive surgery in dogs and cats.

Surgery Aug 17 2021 Much anticipated, the Second Edition of Surgery: Basic Science and Clinical Evidence features fully revised and updated information on the evidence-based practice of surgery, including significant new sections on trauma and critical care and the often challenging surgical care of unique populations, including elderly, pediatric, immunocompromised, and obese patients as well as timely new chapters on the pre- and post-operative care of the cardiac surgery patient, intestinal transplantation, surgical infections, the fundamentals of cancer genetics and proteomics. Also new to this edition are discussions of electrosurgical instruments, robotics, imaging modalities, and other emerging technologies influencing the modern practice of surgery. Clinically focused sections in gastrointestinal, vascular, cardiothoracic, transplant, and cancer surgery enable the surgeon to make decisions based upon the most relevant data in modern surgical practice. The text is enhanced by more than 1,000 illustrations and hundreds of the signature evidence-based tables that made the first edition of SURGERY an instant classic.

Atlas of Metabolic and Weight Loss Surgery Jun 22 2019 The Atlas of Metabolic and Weight Loss Surgery is a fully-illustrated step-by-step guide to 51 open and laparoscopic

procedures for metabolic and weight loss surgery, including the latest information on sleeve gastrectomy, gastric banding, biliopancreatic diversion and more. Learn the latest technique in minimally invasive approaches to bariatric surgery-single incision-for sleeve gastrectomy and gastric band surgery. The Atlas also includes chapters on investigational procedures such as gastric balloons, gastric pacing, endoluminal sleeve and ileal interposition. This is an important text for all bariatric surgeons who want to brush up on the newest surgical procedures, and a must read for any general surgeon who would like to learn more about metabolic and weight loss surgery.

Advances in Endoscopic Surgery May 14 2021 Surgeons from various domains have become fascinated by endoscopy with its very low complications rates, high diagnostic yields and the possibility to perform a large variety of therapeutic procedures. Therefore during the last 30 years, the number and diversity of surgical endoscopic procedures has advanced with many new methods for both diagnoses and treatment, and these achievements are presented in this book. Contributing to the development of endoscopic surgery from all over the world, this is a modern, educational, and engrossing publication precisely presenting the most recent development in the field. New technologies are described in detail and all aspects of both standard and advanced endoscopic maneuvers applied in gastroenterology, urogynecology, otorhinolaryngology, pediatrics and neurology are presented. The intended audience for this book includes surgeons from various specialities, radiologists, internists, and subspecialists.

Endoscopic Spine Surgery Jul 16 2021 Endoscopic technology has advanced to the point where practitioners can now access, visualize, and treat spine pathologies previously only accessible through open surgical approaches. Endoscopic Spine Surgery 2nd Edition provides a comprehensive background on endoscopic spine surgery and covers an unparalleled number of minimally invasive spine procedures that have revolutionized the spine treatment paradigm. Readers will greatly benefit from many years of expertise and wisdom shared by master spine surgeons Daniel Kim, Gun Choi, Sang-Ho Lee, and Richard Fessler, and their expert contributors. Due to the narrow endoscopic view, subtle microanatomical differences in the lumbar, thoracic, and cervical regions are not always easy to visually discern. To address this challenge, the book contains detailed procedural descriptions and images mirroring endoscopic views spine surgeons encounter in the OR. Organized anatomically, 53 chapters guide readers systematically through lumbar, thoracic, cervical, and craniocervical junction procedures for pathologies ranging from low back pain and deformities to tumors, lesions, infections, and trauma. Key Features More than 1000 high quality images including color procedural photographs and medical illustrations provide in-depth visual understanding. Spinal pathologies and procedures delineated in 75 videos accessible via the Media Center - from case studies to step-by-step technique tutorials. Covers the full spectrum of spine endoscopy including percutaneous approaches, microdiscectomy, laminectomy, discectomy foraminotomy, hemilaminectomy, thoracic decompressions, fusion, fixation, and thoracoscopic procedures. The use of state-of-the-art technology such as ultrasonic bone dissectors, endoscopic radiofrequency denervation, the video telescope operating monitor (VITOM), minimally invasive tubular retractors, and 3D stereo-tubular endoscopic systems. Neurosurgical and orthopaedic residents, spine fellows, and seasoned spine surgeons will all greatly benefit from the significant knowledge and insights revealed in this remarkable multimedia resource. This book may also be of interest to neurosurgical and orthopaedic nurses, physical therapists, chiropractors, and medical device professionals.

Research in Nursing Jun 14 2021 Research in Nursing: Evidence for Best Practice is written by experienced nurse-researchers to provide total coverage of the research process from conception and planning to design and application. The publication includes both quantitative and qualitative methodologies, and practical examples of nursing research projects gathered from a wide array of international projects reported in peer-reviewed professional journals. The text incorporates a focus on nurses and nursing, addressing the need for them to engage in evidence-based practice. With the Search me! nursing research database included this is the most current and up-to-date nursing research resource on the market. Research in Nursing supports instructors as they guide new researchers through the entire research process in a practical and easy to read step-by-step guide.

Advances in Service and Industrial Robotics Jul 24 2019 This volume contains the proceedings of the 26th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2017, held at the Polytechnic University of Turin, Italy, from June 21-23, 2017. The conference brought together academic and industrial researchers in robotics from 30 countries, the majority of them affiliated to the Alpe-Adria-Danube Region, and their worldwide partners. RAAD 2017 covered all major areas of R&D and innovation in robotics, including the latest research trends. The book provides an overview on the advances in service and industrial robotics. The topics are presented in a sequence starting from the classical robotic subjects, such as kinematics, dynamics, structures, control, and ending with the newest topics, like human-robot interaction and biomedical applications. Researchers involved in the robotic field will find this an extraordinary and up-to-date perspective on the state of the art in this area.

An Anatomic Approach to Minimally Invasive Spine Surgery Feb 29 2020 Learn state-of-the-art MIS techniques from master spine surgeons! Significant advances have been made in minimally invasive spine (MIS) surgery approaches, techniques, and innovative technologies. By preserving normal anatomic integrity during spine surgery, MIS approaches enable spine surgeons to achieve improved patient outcomes, including faster return to normal active lifestyles and reduced revision rates. Exposing only the small portion of the spine responsible for symptoms via small ports or channels, requires a deep understanding of spinal anatomy and spinal pathophysiology. Building on the widely acclaimed first edition, An Anatomic Approach to Minimally Invasive Spine Surgery, Second Edition, provides an expanded foundation of knowledge to master minimally invasive spine surgery. World-renowned spine neurosurgeons Mick Perez-Cruet, Richard Fessler, Michael Wang, and a cadre of highly regarded spine surgery experts provide masterful tutorials on an impressive array of cutting-edge technologies. Organized by seven sections and 51 chapters, the book presents a diverse spectrum of current safe and efficacious MIS procedures and future innovations. Nonsurgical approaches include injection-based spine procedures and stereotactic radiosurgery. Surgical technique chapters discuss MIS anterior, posterior, and lateral approaches to the cervical, thoracic, and lumbar spine, with procedures such as endoscopic microdiscectomy, vertebroplasty and kyphoplasty, percutaneous instrumentation, and robotic spine surgery. Key Features Step-by-step illustrations, including more than 400 depictions by master surgical and anatomic illustrator Anthony Pazos portray the surgeon's-eye-view of anatomy, intraoperative images, and surgical instruments, thereby aiding in the understanding of anatomy and procedures 20 online videos feature real-time operative fluoroscopy, pertinent anatomy, operative set-up, and common cervical, thoracic, and lumbar approaches Discussion of novel MIS techniques reflected in 16 new or expanded chapters, including Robotic Assisted Thoracic Spine Surgery and Stem-Cell Based Intervertebral Disc Restoration There is truly no better clinical reward for spine surgeons than giving patients suffering from debilitating spinal disorders their life back. This quintessential MIS surgery resource will help surgeons and clinicians accomplish that goal.

Robot Analysis Jun 02 2020 Complete, state-of-the-art coverage of robot analysis This unique book provides the fundamental knowledge needed for understanding the mechanics of both serial and parallel manipulators. Presenting fresh and authoritative material on parallel manipulators that is not available in any other resource, it offers an in-depth treatment of position analysis, Jacobian analysis, statics and stiffness analysis, and dynamical analysis of both types of manipulators, including a discussion of industrial and research applications. It also features: * The homotopy continuation method and dialytic elimination method for solving polynomial systems that apply to robot kinematics * Numerous worked examples and problems to reinforce learning * An extensive bibliography offering many resources for more advanced study Drawing on Dr. Lung-Wen Tsai's vast experience in the field as well as recent research publications, Robot Analysis is a first-rate text for upper-level undergraduate and graduate students in mechanical engineering, electrical engineering, and computer studies, as well as an excellent desktop reference for robotics researchers working in industry or in government.

Liver Disease and Surgery Feb 08 2021 The goal of this book is to present a review of the different categories of liver disease, as well as address the role of surgery in managing these complex diseases. The book includes chapters written by international experts on the most current indications and guidelines regarding the diagnoses and management of liver diseases, as well as a variety of technical elements involved with the surgical procedures. Different surgical techniques involved in performing a hepatectomy will be discussed, including various instruments used, as well as the effect of modern technology as evidenced by novel procedures. An important focus of the book has been identifying the proper place of all these hepatectomy methods in the armamentarium of the experienced hepatobiliary surgeon, including the role of locoregional treatments such as ablation and embolization as adjuncts. Finally, the role of hepatectomy compared to orthotopic liver transplantation is discussed, so that the reader can have a well-rounded picture of the challenges and opportunities involved. Overall, this book has the potential to serve as an invaluable "tool" for both the hepatologist and the internist, as well as for the hepatic surgeon

Environmental Pharmacology of Diclofenac Feb 20 2022 "Nowadays, there is growing concern for the environmental risks of pharmaceuticals. Pharmaceuticals are present in the environment as a consequence of patient use, drug production and formulation, and improper disposal. Pharmaceuticals pose a risk for aquatic organisms as well as for terrestrial environment. Non-steroidal anti-inflammatory drug diclofenac is one of the most commonly prescribed medicines worldwide. Thus, there is growing concern for the potential environmental risks posed by diclofenac. Diclofenac has been included in the watch list of substances in EU that requires its environmental monitoring in the member states. Diclofenac has been shown to cause dramatic population declines (>99%) in Gyps vulture species in India and Pakistan, resulting in localised extinctions. Diclofenac has also been recognized as a threat for plants. Environmental toxicity of diclofenac in plants has implications for human health. Potential human exposure to diclofenac and diclofenac metabolites through dietary intake should be taken into account. Diclofenac as wells as other medications and personal care products may contaminate food produce via plant uptake, thus constituting a route for human exposure. This book presents current knowledge on the environmental pharmacology of diclofenac, taking into account the potentially toxic effect of diclofenac in different eco-systems. In addition, using diclofenac as a paradigm, the book focuses on the discipline of eco-pharmacovigilance as well as on research methodology issues in the field of eco-pharmacovigilance. All the chapters are well-written and structured and appropriately referenced. The most important feature of the book is that although the different chapters have been contributed by scientists with different fields of interest, the book can also be useful for medical doctors who are interested in the field of environmental pharmacology. Environmental pharmacology is a multidisciplinary field of science. The book will be interesting for researchers with research interest in environmental pharmacology, i.e. pharmacologists, chemists, veterinary doctors, health policy makers, etc. The book will also be interesting for academic teachers, medical doctors, pharmacologists, pharmacists and medical students"--

The SAGES Manual of Pediatric Minimally Invasive Surgery Sep 25 2019 This manual provides a comprehensive, state-of-the art review of this field, and will serve as a valuable resource for adult and pediatric surgeons at all stages of experience with interest in the use of minimally invasive surgical techniques in children. This book will review the pediatric surgical disorders that are currently treatable with these techniques. After a basic summary of the disorder, the preoperative evaluation and preparation is presented. Each chapter focuses on a detailed discussion of the surgical procedure, inclusive of anesthesia, positioning, instrumentation, and materials. Emphasis is placed on technique and tips for particularly challenging aspects of the operation. A description of the expected postoperative course and common complications of each procedure follows. The outcomes literature to include any advances since the original outcomes and expected future advances for the diagnosis and procedure is presented. It provides a concise yet comprehensive summary of the current status of the field that will help guide patient management and stimulate investigative efforts. All chapters are written by experts in their fields and include the most up to date scientific and clinical information.

Keyhole Concept in Neurosurgery Mar 24 2022 Written by leading experts in the field, this book offers neurosurgeons instruction in a full range of procedures based on the keyhole concept. The book uses 25 operative cases-all illustrated in precise detail-to show how keyhole techniques can be applied in a wide variety of clinical situations.