Complications In Robotic Urologic Surgery

This book is a practical guide to the laparoscopic and robotic surgery technique in urology. It includes 34 chapters in three sections, which are adrenal gland, kidney and ureter surgery, bladder and prostate surgery and lympadenectomy. This book covers all parts of laparoscopic and robotic urological surgery, including methods in patient selection, peri-operative management, step-by-step descriptions of specific techniques and complication avoidance. It is accompanied with over 800 illustrations and real-time capture figures. It also includes over 40 surgery videos with online access. Through the combination of texts, pictures and videos, it presents the surgical designing, surgical procedures and surgical techniques in panorama. This book is a good reference book for urologists who interested in these techniques.

Robotic technology has paved the way for new opportunities in pediatric urologic surgery. Where once laparoscopy was restricted to urological conditions in children such as undescended testicles and ambiguous genitalia, robotic techniques are now enabling the completion of greatly needed, more involved procedures. Written by highly respected surgeons, Pediatric Robotic Urology provides a state-of-the-art, comprehensive overview of the precise surgical techniques that are changing the practice of pediatric urologic surgery. Divided in two sections and covering both introductory topics and advanced surgical techniques, Pediatric Robotic Urology also includes myriad illustrations and photographs of intraoperative procedures. Developed for accessible reading, this invaluable title is a concise, yet broad reference that is certain to be of significant value to urologists, surgeons, and all health care providers who care for pediatric urologic patients.

Glenn's Urologic Surgery is a comprehensive but concise textbook focused on surgical procedures. After more than 30 years it is still required reading for most urology residents and is consulted by practicing physicians while planning surgeries. Chapters are heavily illustrated and progress from diagnosis to indications for surgery, to brief sections on alternative therapies, and then to detailed sections on surgical technique before closing with a discussion of outcomes as found in the literature. The Seventh Edition continues to emphasize laparoscopic procedures. Each section opens with a thoroughly illustrated description of relevant anatomy.

Complications of Urologic Surgery: Prevention and Management, 4th Edition, by Samir S. Taneja, MD, is a urology resource that presents current management strategies-with an emphasis on prevention-for the most effective patient care. Recognized leaders in the field address both office-based complications as well as common and uncommon surgical complications arising from open and minimally invasive urologic surgery, to equip you to handle a wide range of situations. Best of all, this resource includes a companion website featuring the complete text of the book for convenient reference and review. . Emphasizes prevention over quick fixes for more effective handling of

urologic complications and better patient outcomes. . Covers both acute and long-term care of patients with urologic complications to equip you to manage more cases. . Features the work of recognized leaders in urology for guidance you can trust. . Provides online access through expertconsult.com where you'll find the complete text of the book and references linked to Medline. . Offers up-to-date management approaches of urologic complications to help you stay on top of issues and controversies as you incorporate new surgical techniques into your practice. . Presents a new section on minimally invasive complications that address the challenges arising from laparoscopic and robotic techniques. . Includes a discreet medical complications section that enables you to stay up to date with this rapidly changing area of urology and understand the risks and benefits of the newest hormone and chemotherapeutic regimens. . Inclues Key Points for each chapter to help you find information quickly and study for the boards more efficiently. . Features a new, four-color format and illustrations that highlight important points within the text. Your purchase entitles you to access the web site until the next edition is published, or until the current edition is no longer offered for sale by Elsevier, whichever occurs first. Elsevier reserves the right to offer a suitable replacement product (such as a downloadable or CD-ROM-based electronic version) should access to the web site be discontinued.

Robotic-Assisted Minimally Invasive Surgery

New Achievements

Medical Robotics

Complications of Urologic Surgery and Practice

Advanced Gynecologic Endoscopy

Approximately 100 years ago, after the first diagnostic laparoscopy and subsequent developments, the adventure began with laparoscopic appendectomy and cholecystectomy and reached a point where any surgical procedure could be performed easily. Today, many endoscopic surgical procedures have an important role not only in general surgery, but also in the daily practice of many surgical branches. This vertiginous development and change of speed make rapid replacement of the visual and printed materials necessary for training in this area. This book is prepared by surgeons who are very successful in their field.

Robotic Urologic Surgery, Second Edition is an updated and revised technical manual focusing on the various robotic approaches to robotic urologic surgical procedures. This book provides instructions on how to develop a successful robotics program, learn the various techniques, and improve outcomes. It also aids the reader with helpful hints to avoid pitfalls. Robotic Urologic Surgery, Second Edition includes up-to-date contributions from leading robotic

urologic surgeons from around the world. The detailed body of data which this book provides is supported by schematic diagrams and anatomic photographs to illustrate the concept being discussed. Robotic Urologic Surgery, Second Edition is an essential guide for all urologists as a reference to establish a robotics program, refine their surgical technique, and provide information to patients.

"As a consequence of rapid changes in surgical technique and incorporation of new robotic technology and advanced intraoperative imaging, the second edition of this important textbook reflects these rapid changes in the field of robotic urologic surgery. The goals of this textbook are three-fold. First, it provides a comprehensive update on surgical techniques pertinent to each robotic urologic procedure being performed worldwide, spanning procedures performed for both upper urinary tract (e.g. adrenal, kidney, ureter) and lower urinary tract (e.g. bladder, prostate, seminal vesicle, vagina) as well as adult and pediatric conditions. Second, advances in new robotic instruments and technology as well as advanced intraoperative imaging modalities used for surgical navigation are incorporated. Third, to further improve upon the first edition, this textbook is highly illustrated with schematic drawings to aid an understanding of the surgical techniques. Links to online video content is presented throughout. Atlas of Robotic Urologic Surgery will serve as a vital step-by-step, highly illustrated comprehensive yet concise resource to urologic surgeons, trainees and robotic surgical assistants embarking on robotic surgery as part of their surgical armamentarium for treatment of urologic diseases."--

Written in response to the increase of minimally invasive surgery in urology, this volume familiarizes urologists with the complications of laparoscopic and robotic urologic surgery. Various procedures are described, and the management of complications associated with each procedure are discussed.

Diagnosis, Prevention, and Management

Robotic Urology

Hinman's Atlas of Urologic Surgery E-Book

Advances in Robotic-Assisted Urologic Surgery, An Issue of Urologic Clinics,

Pediatric Robotic and Reconstructive Urology

From the simple to the complex, Complications of Urologic Surgery, 5th Edition, by Drs. Samir S. Taneja and Ojas Shah, offers concise, to-the-point information on prevention and management strategies that help you provide the best patient care. Covering both office-based complications as well as common and uncommon surgical complications arising from open and minimally invasive urologic surgery, this updated, full-color volume is an invaluable resource for exam study or for convenient reference in everyday practice. Contains 14 new chapters including Management of Urine Leak, Urologic Surgery in the Pregnant Female, Complications of Gender Assignment Surgery, Urologic Surgery in the Previously Radiated Field, Complications of Robotic Pelvic Floor Reconstruction, and Complications of Robotic Cystectomy. Keeps you up to date with current preoperative management concerns including complications with effusion, hydrothorax, hemothorax, diaphragm injury, pneumonia, and air embolus. Features more than 180 superb new illustrations, graphs, and tables for easier understanding of complex concepts. Reviews new anticoagulant drugs and their risks and benefits. Provides thoroughly updated content on oncology, endourology, and pediatric surgeries – all areas experiencing tremendous changes since the previous edition.

Robotic-assisted laparoscopic urologic surgery is a major evolution in the field and has now become a major subspecialty. This issue of Urologic Clinics of North America aims to provide comprehensive, state-of-the-art information about the recent developments in the areas of Uro-Oncology, Reconstructive Urology, and Female Urology. Topics such as issue of training, evidence-based practice, the economics of robotic surgery, and the impact on public and global health are also covered.The contributors are truly pioneers and the best experts in the field.

The Encyclopedia of Medical Robotics combines contributions in four distinct areas of Medical robotics, namely: Minimally Invasive Surgical Robotics, Micro and Nano Robotics in Medicine, Image-guided Surgical Procedures and Interventions, and Rehabilitation Robotics. The volume on Minimally Invasive Surgical Robotics focuses on robotic technologies geared towards challenges and opportunities in minimally invasive surgery and the research, design, implementation and clinical use of minimally invasive robotic systems. The volume on Micro and Nano robotics in Medicine is dedicated to research activities in an area of emerging interdisciplinary technology that is raising new scientific challenges and promising revolutionary advancement in applications such as medicine and biology. The size and range of these systems are at or below the micrometer scale and comprise assemblies of micro and nanoscale components. The volume on Image-guided Surgical Procedures and Interventions focuses primarily on the use of image guidance during surgical procedures and the challenges posed by various imaging environments and how they related to the design and development of robotic systems as well as their clinical applications. This volume also has significant contributions from the clinical viewpoint on some of the challenges in the domain of image-guided interventions. Finally, the volume on Rehabilitation Robotics is dedicated to the state-of-the-art of an emerging interdisciplinary field where robotics, sensors, and feedback are used in novel ways to re-learn, improve, or restore functional movements in humans. Volume 1, Minimally Invasive Surgical Robotics, focuses on an area of robotic applications that was established in the late 1990s, after the first robotics-assisted minimally invasive surgical procedure. This area has since received significant attention from industry and researchers. The teleoperated and ergonomic features of these robotic systems for minimally invasive surgery (MIS) have been able to reduce or eliminate most of the drawbacks of conventional (laparoscopic) MIS. Robotics-assisted MIS procedures have been conducted on over 3 million patients to date — primarily in the areas of urology, gynecology and general surgery using the FDA approved da Vinci ® surgical system. The

significant commercial and clinical success of the da Vinci ® system has resulted in substantial research activity in recent years to reduce invasiveness, increase dexterity, provide additional features such as image guidance and haptic feedback, reduce size and cost, increase portability, and address specific clinical procedures. The area of robotic MIS is therefore in a state of rapid growth fueled by new developments in technologies such as continuum robotics, smart materials, sensing and actuation, and haptics and teleoperation. An important need arising from the incorporation of robotic technology for surgery is that of training in the appropriate use of the technology, and in the assessment of acquired skills. This volume covers the topics mentioned above in four sections. The first section gives an overview of the evolution and current state the da Vinci ® system and clinical perspectives from three groups who use it on a regular basis. The second focuses on the research, and describes a number of new developments in surgical robotics that are likely to be the basis for the next generation of robotic MIS systems. The third deals with two important aspects of surgical robotic systems — teleoperation and haptics (the sense of touch). Technology for implementing the latter in a clinical setting is still very much at the research stage. The fourth section focuses on surgical training and skills assessment necessitated by the novelty and complexity of the technologies involved and the need to provide reliable and efficient training and objective assessment in the use of robotic MIS systems. In Volume 2, Micro and Nano Robotics in Medicine, a brief historical overview of the field of medical nanorobotics as well as the state-of-the-art in the field is presented in the introductory chapter. It covers the various types of nanorobotic systems, their applications and future directions in this field. The volume is divided into three themes related to medical applications. The first theme describes the main challenges of microrobotic design for propulsion in vascular media. Such nanoscale robotic agents are envisioned to revolutionize medicine by enabling minimally invasive diagnostic and therapeutic procedures. To be useful, nanorobots must be operated in complex biological fluids and tissues, which are often difficult to penetrate. In this section, a collection of four papers review the potential medical applications of motile nanorobots, catalytic-based propelling agents, biologically-inspired microrobots and nanoscale bacteria-enabled autonomous drug delivery systems. The second theme relates to the use of micro and nanorobots inside the body for drug-delivery and surgical applications. A collection of six chapters is presented in this segment. The first chapter reviews the different robot structures for three different types of surgery, namely laparoscopy, catheterization, and ophthalmic surgery. It highlights the progress of surgical microrobotics toward intracorporeally navigated mechanisms for ultra-minimally invasive interventions. Then, the design of different magnetic actuation platforms used in micro and nanorobotics are described. An overview of magnetic actuation-based control methods for microrobots, with eventually biomedical applications, is also covered in this segment. The third theme discusses the various nanomanipulation strategies that are currently used in biomedicine for cell characterization, injection, fusion and engineering. In-vitro (3D) cell culture has received increasing attention since it has been discovered to provide a better simulation environment of in-vivo cell growth. Nowadays, the rapid progress of robotic technology paves a new path for the highly controllable and flexible 3D cell assembly. One chapter in this segment discusses the applications of micro-nano robotic techniques for 3D cell culture using engineering approaches. Because cell fusion is important in numerous biological events and applications, such as tissue regeneration and cell reprogramming, a chapter on robotic-tweezers cell manipulation system to achieve precise laser-induced cell fusion using optical trapping has been included in this volume. Finally, the segment ends with a chapter on the use of novel MEMS-based characterization of micro-scale tissues instead of mechanical

characterization for cell lines studies. Volume 3, Image-guided Surgical Procedures and Interventions, focuses on several aspects ranging from understanding the challenges and opportunities in this domain, to imaging technologies, to image-guided robotic systems for clinical applications. The volume includes several contributions in the area of imaging in the areas of X-Ray fluoroscopy, CT, PET, MR Imaging, Ultrasound imaging, and optical coherence tomography. Ultrasound-based diagnostics and therapeutics as well as ultrasound-guided planning and navigation are also included in this volume in addition to multi-modal imaging techniques and its applications to surgery and various interventions. The application of multi-modal imaging and fusion in the area of prostate biopsy is also covered. Imaging modality compatible robotic systems, sensors and actuator technologies for use in the MRI environment are also included in this work., as is the development of the framework incorporating image-guided modeling for surgery and intervention. Finally, there are several chapters in the clinical applications domain covering cochlear implant surgery, neurosurgery, breast biopsy, prostate cancer treatment, endovascular interventions, neurovascular interventions, robotic capsule endoscopy, and MRI-guided neurosurgical procedures and interventions. Volume 4, Rehabilitation Robotics, is dedicated to the state-of-the-art of an emerging interdisciplinary field where robotics, sensors, and feedback are used in novel ways to relearn, improve, or restore functional movements in humans. This volume attempts to cover a number of topics relevant to the field. The first section addresses an important activity in our daily lives: walking, where the neuromuscular system orchestrates the gait, posture, and balance. Conditions such as stroke, vestibular deficits, or old age impair this important activity. Three chapters on robotic training, gait rehabilitation, and cooperative orthoses describe the current works in the field to address this issue. The second section covers the significant advances in and novel designs of soft actuators and wearable systems that have emerged in the area of prosthetic lower limbs and ankles in recent years, which offer potential for both rehabilitation and human augmentation. These are described in two chapters. The next section addresses an important emphasis in the field of medicine today that strives to bring rehabilitation out from the clinic into the home environment, so that these medical aids are more readily available to users. The current state-of-the-art in this field is described in a chapter. The last section focuses on rehab devices for the pediatric population. Their impairments are life-long and rehabilitation robotics can have an even bigger impact during their lifespan. In recent years, a number of new developments have been made to promote mobility, socialization, and rehabilitation among the very young: the infants and toddlers. These aspects are summarized in two chapters of this volume.

This updated edition offers guidance on the application of robotic surgery in urology. Each technique is described in detail, with careful explanation of the different surgical steps The book brings together leading robotic surgeons from around the world and utilises their knowledge once again to update and provide a manual that covers all the oncologic and reconstructive procedures in urologic surgery that are performed with robotic assistance This book serves as an ideal reference work for all urologists and should contribute in supporting new robotic teams

Surgical Complications and Management

Robotic Surgery, An Issue of Surgical Clinics

Technical and Management Aspects

Radical Prostatectomy

Beyond the Learning Curve

Robotic urological surgery is one of the most significant urological developments in recent years. It allows for greater precision than laparoscopic methods while

retaining quicker recovery time and reduced morbidity over classical open surgical techniques. For children, where the room for error is already reduced because of smaller anatomy, it takes on even more importance for urologists. As a result, robotic surgery is rightly considered one of the most exciting contemporary developments in pediatric urology. Pediatric Robotic and Reconstructive Urology: A Comprehensive Guide provides specialist and trainees with an innovative text and video guide to this dynamic area, in order to aid mastery of robotic approaches and improve the care of pediatric patients. Full-color throughout and including over 130 color images, this comprehensive guide covers key areas including: Training, instrumentation and physiology of robotic urologic surgery Surgical planning and techniques involved Adult reconstructive principles applicable to pediatrics Management of complications, outcomes and future perspectives for pediatric urologic surgery Also included are 30 high-quality surgical videos illustrating robotic surgery in action, accessed via a companion website, thus providing the perfect visual tool for the user. With chapters authored by the leading names in the field, and expertly edited by Mohan Gundeti, this ground-breaking book is essential reading for all pediatric urologists, pediatric surgeons and general urologists, whether experienced or in training. Of related interest Smith's Textbook of Endourology, 3E Smith, ISBN 9781444335545 Pediatric Urology: Surgical Complications and Management Wilcox, ISBN 9781405162685

This updated volume provides a comprehensive guide to the recent developments of digital and intelligent technologies related to genitourinary surgery. New topics include the adaptation of simulators, training programs, standardized credentialing, evidence-based practice, as well as the economics of robotic surgery. The impact on public and global health is also covered. Robotics in Genitourinary Surgery aims to help surgeons and patients adopt the techniques and procedures discussed, and in turn educate and expand research activities within the field.

Complications of Urologic Surgery: Prevention and Management, 4th Edition, by Samir S. Taneja, MD, is a urology resource that presents current management strategies—with an emphasis on prevention—for the most effective patient care. Recognized leaders in the field address both office-based complications as well as common and uncommon surgical complications arising from open and minimally invasive urologic surgery, to equip you to handle a wide range of situations. • Emphasizes prevention over quick fixes for more effective handling of urologic complications and better patient outcomes. • Covers both acute and long-term care of patients with urologic complications to equip you to manage more cases. • Features the work of recognized leaders in urology for guidance you can trust. • Offers up-to-date management approaches of urologic complications to help you stay on top of issues and controversies as you incorporate new surgical techniques into your practice. • Presents a new section on minimally invasive complications that address the challenges arising from laparoscopic and robotic techniques. • Includes a discreet medical complications section that enables you to stay up to date with this rapidly changing area of urology and understand the risks and benefits of the newest hormone and chemotherapeutic regimens. • Uses Key Points at the top of each chapter to help you find information quickly and study for the boards more efficiently. • Features a new, four-color format and illustrations that highlight important points within the text.

Depend on Hinman's for up-to-date, authoritative guidance covering the entire

scope of urologic surgery. Regarded as the most authoritative surgical atlas in the field, Hinman's Atlas of Urologic Surgery, 4th Edition, by Drs. Joseph A. Smith, Jr., Stuart S. Howards, Glenn M. Preminger, and Roger R. Dmochowski, provides highly illustrated, step-by-step guidance on minimally invasive and open surgical procedures, new surgical systems and equipment, and laparoscopic and robotic techniques. New chapters keep you up to date, and all-new commentaries provide additional insight from expert surgeons. Features 10 new chapters, including Radical Cystectomy in the Male, Robotic Urinary Diversion, Laparoscopic and Robotic Simple Prostatectomy, Transrectal Ultrasound-Directed Prostate Biopsy, Transperineal Prostate Biopsy, Prostate Biopsy with MRI Fusion, Focal Therapies in the Treatment of Prostate Cancer, Brachy Therapy, Male Urethral Sling, and Botox Injection for Urologic Conditions. Includes new commentaries in every chapter from today's leading urologists. Offers a step-by-step incremental approach, highlighted by new illustrations, photos, and images. Keeps you current with significant revisions to all female sling chapters, urethroplasty chapters, and more. Helps you find what you need quickly with a clear, easy-to-use format – now reorganized to make navigation even easier.

Pediatric Robotic Urology

Complications in Robotic Urologic Surgery

Complications of Urologic Surgery E-Book

A Comprehensive Guide

Complications of Laparoscopic and Robotic Urologic Surgery

Pediatric Urology: Surgical Complications and Management, 2nd edition focuses 100% on the most common problems that can occur during pediatric urologic surgery, and how best to resolve them, ensuring the best possible outcome for the patient. As well as being thoroughly revised with the latest in management guidelines, brand new to this edition are a host of clinical case studies highlighting real-life problems during urologic surgery and the tips and tricks used by the surgeon to resolve issues faced. These will be invaluable for urology trainees learning their trade as well as for those preparing for Board or other specialty exams. Chapters will include problem solving sections as well as key take-home points. In addition, high-quality teaching videos showing urologic surgery in action will be included via the companion website - again proving an invaluable tool for all those seeking to improve their surgical skills. Edited by an experienced and international trio of urologists, they will recruit the world's leading experts, resulting in a uniform, high-quality and evidence-based approach to the topic. Pediatric Urology: Surgical Complications and Management, 2nd edition is essential reading for all urologists, especially those specialising in pediatric urology and urologic surgery, as well as general surgeons.

Minimally invasive surgery has impacted the outcomes of

surgery more than any technology since the development of sterile technique. The hard science has demonstrated that decrease in wound complications and recovery time has created the biggest gap with open approaches to surgery. The total economic benefit may be unfathomable when looked at comprehensively. Integral to the rise of minimal access and therapeutic techniques in surgery has been the growth of technological improvements over time. Beginning with insufflators, videoscopy, and energy devices, that evolution has continued into the development of tele-surgical devices that feature full articulation of instruments, high-resolution 3-D optics, and computer assisted movement. This has come with controversy – as the dominant manufacturer of robotic assisted devices, Intuitive Surgical, and their generations of da Vinci surgical platforms, holds enough market share to spur cries of monopoly and financial excess. However, with over 3000 world-wide systems in use, and over 6000 peer-reviewed research articles, the impact of robotic surgery cannot be ignored. The current state of data suggests equivalency in most procedures with regard to traditional outcome measures, equal or somewhat elevated costs, with specific areas of superiority. The first section of this textbook, Surgical Robots, covers the history, economics, training, and medico-legal aspects of robotic surgery that will be of interest to students, residents, fellows, surgical staff, and administrators or public health specialists who seek to gain a comprehensive background on robotic surgery, or justification for purchasing a robotic system for their institution. Surgeons will also find this background valuable to their practice, to give context to their procedures so they can better counsel their patients, help with advocating for robotic platform purchases, and proactively prepare themselves for medico-legal issues. The chapter on legal issues will have specific instances of robotic surgery-related lawsuits and their outcomes, a first for robotic surgery texts. The second section of this textbook, Robotic Procedures, will contain a comprehensive catalogue of procedures that have been performed robotically in general surgery, gynecology, urology, plastic surgery, cardiothoracic, and otolaryngology. Each author will cover the existing literature, preoperative planning, room and patient setup, steps of the procedure, and postoperative care. Standardized room maps and port placement will help the student, resident, fellow, surgeon or OR Staff to quickly reference these before cases. Each chapter will

also cover the specific equipment needs and expected complexity of the procedures, allowing administrators to better gauge how to prepare for, or ration, use or their robotic resources. The final section, Future of Robotics, will give the entire scope of audience a look into what exciting advancements in the field are on the horizon. This textbook is a complete resource for robotic-assisted minimally invasive surgery, covering the history, current state, technical and clinical aspects, and future considerations that may be of interest to any who has a role, stake, or curiosity regarding robotic surgery.

Despite the rising popularity of the minimally invasive laparoscopic option, open nephron-sparing surgery is still seen by many experts as the 'gold standard' for open surgery for kidney tumors and should remain the first choice for many patients. This challenges the idea that less-invasive therapies are always more desirable than open surgery. Whi

The main purpose of this book is to address some important issues related to gynecologic laparoscopy. Since the early breakthroughs by its pioneers, laparoscopic gynecologic surgery has gained popularity due to developments in illumination and instrumentation that led to the emergence of laparoscopy in the late 1980's as a credible diagnostic as well as therapeutic intervention. This book is unique in that it will review common, useful information about certain laparoscopic procedures, including technique and instruments, and then discuss common difficulties faced during each operation. We also discuss the uncommon and occasionally even anecdotal cases and the safest ways to deal with them. We are honored to have had a group of world experts in laparoscopic gynecologic surgery valuably contribute to our book.

Urologic Laparoscopic Surgery

A Comprehensive Textbook

Atlas of Robotic Urologic Surgery

Urologic Robotic Surgery

From Open to Robotic

The introduction of robotic technology into modern day operating theatres has changed the way that surgery will be preformed. The last five years have shown a paradigm shift toward the adoption of robotic surgical techniques. This comprehensive book for the practicing urologist will be an invaluable addition to every urologist’s library. The book serves as a much needed educational guide to understanding the scope of robotic procedures performed.

Robotic Urologic Surgery is a technical manual for various robotic approaches to surgical procedures, with helpful hints for avoiding pitfalls. The book shows how to develop a

successful robotics program, learn the various techniques, and improve outcomes. Leading robotic urologic surgeons worldwide contribute chapters. The body of available data is reviewed in table format and supported by schematic diagrams and anatomic photographs to illustrate the concept being discussed. An accompanying DVD gives instructional content. This book is essential reading for all urologists as a reference to establish a robotics program, refine their surgical technique and provide information to patients.
This text examines precisely all possible scenarios about robotic urologic surgery where a complication may arise, in order that the surgeon knows all the risk factors that predispose a complication, and if it is presented, to have all anatomical, surgical and updated scientific elements to resolve the situation successfully. The book's content is designed for easy and thorough reading. It is organized in sections that include an overview of robotic surgery, principles of anesthesia and complications, as well as recognition of failure in the instruments used in this kind of surgery. It then offers a detailed discussion of each robotic urologic surgical procedures, both the upper urinary tract, lower urinary tract, oncological procedures, reconstructive and those that are managed in conjunction with other specialties such as gynecology, pediatrics, and other highly specialized as the case of kidney transplantation. Chapters are written by experts in the field who indicate step by step review of each clinical case in particular to prevent the occurrence of associated complications, including providing information on legal aspects. The book is written for both novice surgeons and all those experts who interact daily in the wonderful world of robotic surgery. Containing the points of view and recommendations of the most experienced surgeons in each of the procedures, it is as if the professor were in the operating room with the surgeon to explain how to prevent, identify and treat complications. Complications in Robotic Urologic Surgery represents the complete collection of all the stages of complications in urologic robotic surgery and will be indispensable for all robotic surgeons.
Divided into five sections focusing on perioperative, surgical, pediatric, endoscopic and laparoscopic, and miscellaneous complications, this guide supplies state-of-the-art strategies for the identification, prevention, and management of the myriad complications that can arise during urologic surgical treatment. With contributors from leading heal
Pediatric Urology
Pediatric Robotic Surgery
Nephron-Sparing Surgery
Encyclopedia of Medical Robotics
Robotics in Genitourinary Surgery
This issue of Surgical Clinics of North America focuses on Robotic Surgery, and is edited by Dr. Julio Teixeira. Articles will include: History of Computer-assisted Surgery; Robotic Cardiac Surgery; Robotic Thoracic Surgery; Robotic Foregut Surgery; Robotic Liver Resection; Robotic Cholecystectomy; Robotic Pancreatic and Solid Surgery; Robotic Colorectal Surgery; Robotic Urology Surgery; Robotic Vental Hernia Surgery; Robotic Inguinal Hernia Surgery; Robotic Bariatric Surgery; Robotic Pediatric Surgery; Robotic Gynecological Surgery; Complications of Robotic Surgery; and more!
In this second, revised edition of Robotic Urology, leading robotic surgeons from around the world pool their knowledge to provide an updated manual that covers all the oncologic and reconstructive procedures in urologic surgery that are performed with robotic assistance. Each operation is described in detail, with careful explanation of the different surgical steps and numerous high-quality anatomic illustrations and color surgical photos. An additional feature is the inclusion of extensive references to the scientific literature. As well as offering

excellent guidance on the application of robotic surgery in urology, the book will serve as an ideal reference work for all urologists and should contribute in supporting new robotic teams and further popularizing robotic surgery.

This new reference is devoted to the exploding area of robotic-assisted urologic surgery. It covers setting up robotics and instrumentation, as well as adapting laparoscopic equipment to this exciting new technology. It also guides you through a full range of robotic procedures including prostatectomy, which is experiencing significant success and patient satisfaction by using robotic technology, as well as nephrectomy, adrenalectomy, vasovasostomy, and pediatric procedures. Full color illustrations help familiarize you with the latest surgical techniques and instrumentation. Learn about the indications for robotic urologic surgery and the potential improvements in patient outcomes. Covers all urologic procedures that are adaptable to robotic technology with chapters on cystectomy, nephrectomy, prostatectomy, vasovasostomy, and adrenalectomy. Offers full color images of procedures to enhance surgical concepts.

Radical prostatectomy involves the surgical removal of the entire prostate gland and the seminal vesicles. Recently the open operation has been challenged by laparoscopic and robotic techniques. However, making the transition to this new technology is not an easy option. Avoiding surgical complications such as incontinence and ensuring continued er

Prevention and Management

Robotic Urology: The Next Frontier, An Issue of Urologic Clinics

Glenn's Urologic Surgery

Smith's Textbook of Endourology

Atlas of Laparoscopic and Robotic Urologic Surgery E-Book

This book presents the state of the art across the entire field of pediatric robotic surgery, including thoracic, abdominal, oncologic, gynecologic, and urologic procedures. Indications for each type of robotic surgery are clearly set out and technical aspects are described in detail, illustrating the patient's position and explaining the robotic assessment and the optimal use of robotic instruments. Anesthetic issues and the management of robotic complications are discussed, and managerial aspects are also considered, with provision of helpful suggestions on how to approach robotic surgery in each pediatric department. For surgeons who wish to start using the pediatric robotic approach, simple illustrations of robotic assessment and principles of robotic surgery are included. Pediatric robotic surgery has undergone significant development in recent years, and the technology is now applied to a variety of pediatric diseases beyond urology. This book has been written by a group of world-renowned pioneers of pediatric robotic surgery and will appeal to pediatric surgeons of all disciplines, to residents, and to hospital general managers and medical directors.

Edited by the father of endourology, Arthur Smith, Smith's Textbook of Endourology is the definitive reference book in the field, addressing every aspect of endourologic procedure including methods of access, operative techniques, complications, and postoperative care. The reader is taken on a step-by-step journey through percutaneous surgery, ureteroscopy, extracorporeal shock wave lithotripsy, laparoscopy, and lower urinary tract procedures, and is given a comprehensive look at the influx of and dynamic changes in robotic and laparascopic procedures, and image-guided technologies. The principles and function of state-of-the-art endourologic instruments are outlined for each procedure. Now in full-color, the third edition contains 800 extra pages, culminating in an 1800 page, two-volume textbook reflecting the most current advances in endourology. A supplemental DVD includes over 100 high-quality surgical videos allowing you to see endourology in practice. With all chapters thoroughly revised by world-renowned authors with unrivalled expertise in the field, Smith's Textbook of Endourology 3E is an essential reference book for all urologists, particularly those who regularly perform endourology in their daily practice. This new edition, with its vast amount of extra content, will rightly cement its status as the leading urologic surgery textbook. Titles of Related Interest Interventional Techniques in Uro-oncology Arya, ISBN 9781405192729 Evidence-based Urology Dahm, ISBN 9781405185943

This book addresses knowledge gaps in RARP in 3 key sections: 1) Step-by-step approach including multiple technique options and innovations, 2) Patient selection, safety, outcomes, and 3) Preparing the patient for surgery. The order is more based upon knowledge priority rather than a chronologic sequence in which part 3 would go first. Part two allows more summary and commentary on evidence and part three allows some creative content that is otherwise hard to find in one place—medical evaluations, imaging, clinical trials, patient education, etc. This textbook emphasizes content for the advanced skills surgeon in that multiple techniques are presented as well as state of the art evidence. The learning curve is addressed and the authors clarify how this text is useful for learners. The caveat is that they should be careful in patient selection and stick with what their mentors are showing them. With experience,

they can then branch out into the many techniques presented here. Robot-Assisted Radical Prostatectomy: Beyond the Learning Curve will also have cross-over appeal for surgical assistants, physician assistants, nurses, and anyone else involved in the surgical care of prostate cancer.

This illustrated text covers all aspects of laparoscopic urologic surgery. It examines the laparoscopic indications for using laparoscopy for a particular procedure and then describes the laparoscopic techniques in detail, and reviews how to handle complications and untoward events. It finishes each chapter by providing an overview of the procedure and recommendations on tricks of the trade.

Robotics in Urologic Surgery

Complications of Urologic Surgery

Atlas of Laparoscopic and Robotic Single Site Surgery

Robotic Urologic Surgery

New Horizons in Laparoscopic Surgery

As a consequence of rapid changes in surgical technique and incorporation of new robotic technology and advanced intraoperative imaging, the second edition of this important textbook reflects these rapid changes in the field of robotic urologic surgery. The goals of this textbook are three-fold. First, it provides a comprehensive update on surgical techniques pertinent to each robotic urologic procedure being performed worldwide, spanning procedures performed for both upper urinary tract (e.g. adrenal, kidney, ureter) and lower urinary tract (e.g. bladder, prostate, seminal vesicle, vagina) as well as adult and pediatric conditions. Second, advances in new robotic instruments and technology as well as advanced intraoperative imaging modalities used for surgical navigation are incorporated. Third, to further improve upon the first edition, this textbook is highly illustrated with schematic drawings to aid an understanding of the surgical techniques. Links to online video content is presented throughout. Atlas of Robotic Urologic Surgery will serve as a vital step-by-step, highly illustrated comprehensive yet concise resource to urologic surgeons, trainees and robotic surgical assistants embarking on robotic surgery as part of their surgical armamentarium for treatment of urologic diseases.

Under the direction of New Consulting Editor, Dr. Kevin Loughlin, Guest Editors Drs. Jim C. Hu and Jonathan Shoag have put together a state-of-the-art monograph on robotics in urologic surgery. Not only do expert authors present current status and advances in this field, but they also look at what the future of robotic urologic surgery will mean for urologists and patients. Clinical review articles are devoted to the following topics: Robotic Ureteral Reconstruction; Robotic Prostatectomy: Technical Modifications that Improve Outcomes; Robotic Radical Cystectomy; Robotic Urology Training; Robotic Prostatectomy Quality Improvements; Robotic Lower Urinary Tract Reconstruction; Incorporating AI into GU Endoscopy; Competing Robotic Systems: A Preview; Robotic Intracorporeal Diversion; Robotic Reconstruction in Pediatric Urology; Robotic Partial Nephrectomy: Update on Techniques; Robotics in Male Infertility; Transperineal Biopsy; Robotic-Assisted Surgery for Upper-Tract TCC; and Retzius-Sparing Robotic Prostatectomy.

Urologists will come away with the information they need to stay on top of advances in the area of robotic surgery.

This text provides a broad and current review of this field and will serve as a valuable resource for trainees, academic and community surgeons, and members of industry with an interest in LESS. Due to the novelty and complexity of these procedures, the book focuses on detailed descriptions as well as pertinent illustrations for various upper and lower tract urologic procedures. The development of novel minimally invasive and robotic technology for more comfortable performance of these demanding procedures is covered. A complete description of instrumentation, platforms, and optics developed specifically for LESS is another primary focus of this text. Finally, a description of outcomes and complications as well as comparative data defining the status of LESS in relation to other current minimally invasive techniques is offered. Atlas of Laparoscopic and Robotic Single Site Surgery will provide a detailed summary of the current status of LESS that will help guide surgical decision making, encourage investigative efforts, and stimulate industry led technology development.

Written by recognized experts in this fast-changing field, this highly practical text by Drs. Jay T. Bishoff, Louis R. Kavoussi, and David A. Leavitt has been completely revised and greatly expanded to cover what you need to know about today's laparoscopic and robotic technology and techniques. Atlas of Laparoscopic and Robotic Urologic Surgery is a concise, thorough, superbly illustrated reference, perfect for learning new techniques or briefly reviewing before a case. You'll be guided through today's best minimally invasive approaches using new surgical systems and equipment, including third- and fourth-generation robotic devices. Step-by-step illustrations, tips and tricks, and information on complications helps you sharpen your skills in this high-demand area. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Twenty brand-new chapters on camera and lens systems, instrumentation, the da Vinci surgical system, pyelo/ureterolithotomy, robotic-assisted and laparoscopic simple prostatectomy, and more. Completely revised and updated chapters on laparoscopic partial nephrectomy and endoscopic inguinal lymph node dissection for penile cancer. Cutting-edge topics including matured techniques for nephron sparing surgery, state-of-the-art nerve sparing for radical robotic prostatectomy, innovative approaches to treat ureteral strictures, up-to-date surgical care of malignancies, and novel pediatric surgeries.

Laparoscopic and Robotic Surgery in Urology

Robot-Assisted Radical Prostatectomy

Robotic Assisted Laparoscopic Surgery (RALS) in Pediatric Urology

(In 4 Volumes) Volume 1: Minimally Invasive Surgical Robotics Volume 2: Micro and Nano Robotics in Medicine Volume 3: Image-guided Surgical Procedures and Interventions Volume 4: Rehabilitation Robotics