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The aim of this book is to assemble a series of chapters, written by experts in their fields, covering the basics of color - and then some more. In this way, readers are supplied with almost anything they want to know about color outside their own area of expertise. Thus, the color measurement expert, as well as the general reader, can find here information on the perception, causes, and uses of color. For the artist there are details on the causes, measurement, perception, and reproduction of color. Within each chapter, authors were requested to indicate directions of future efforts, where applicable. One might reasonably expect that all would have been learned about color in the more than three hundred years since Newton established the fundamentals of color science. This is not true because: • the measurement of color still has unresolved complexities (Chapter 2) • many of the fine details of color vision remain unknown (Chapter 3) • every few decades a new movement in art discovers original ways to use new pigments, and dyes continue to be discovered (Chapter 5) • the philosophical approach to color has not yet crystallized (Chapter 7) • new pigments and dyes continue to be discovered (Chapters 10 and 11) • the study of the biological and therapeutic effects of color is still in its infancy (Chapter 2). Color continues to develop towards maturity and the editor believes that there is much common ground between the sciences and the arts and that color is a major connecting bridge.

The podocyte is a key cell that forms the last barrier of the kidney filtration unit. One of the most exciting developments in the field of nephrology in the last decade has been the elucidation of its biology and its role in the pathophysiology of inherited and acquired glomerular disease, termed podocytopathy. In this publication, world-renowned experts summarize the most recent findings and advances in the field: they describe the unique biological features and injury mechanisms of the podocyte, novel techniques used in their study, and diagnosis and potential therapeutic approaches to glomerular diseases. Due to its broad scope, this publication is of great value not only for clinical nephrologists and researchers, but also for students, residents, fellows, and postdocs.

A State-of-the-Art Guide to Biomedical Engineering and Design Fundamentals and Applications The two-volume Biomedical Engineering and Design Handbook, Second Edition, offers unsurpassed coverage of the entire biomedical engineering field, including fundamental concepts, design and development processes, and applications. This landmark work contains contributions on a wide range of topics from nearly 80 leading experts at universities, medical centers, and commercial and law firms. Volume 2 provides timely information on breakthrough developments in medical device design, diagnostic equipment design, surgery, rehabilitation engineering, prosthetics design, and clinical engineering. Filled with more than 400 detailed illustrations, this definitive volume examines cutting-edge design and development

methods for innovative devices, techniques, and treatments. Volume 2 covers: Medical Product Design FDA Medical Device Requirements Cardiovascular Devices Design of Respiratory Devices Design of Artificial Kidneys Design of Controlled-Release Drug Delivery Systems Sterile Medical Device Package Development Design of Magnetic Resonance Systems Instrumentation Design for Ultrasonic Imaging The Principles of X-Ray Computed Tomography Nuclear Medicine Imaging Instrumentation Breast Imaging Systems Surgical Simulation Technologies Computer-Integrated Surgery and Medical Robotics Technology and Disabilities Applied Universal Design Design of Artificial Arms and Hands for Prosthetic Applications Design of Artificial Limbs for Lower Extremity Amputees Wear of Total Knee and Hip Joint Replacements Home Modification Design Intelligent Assistive Technology Rehabilitators Risk Management in Healthcare Technology Planning for Healthcare Institutions Healthcare Facilities Planning Healthcare Systems Engineering Enclosed Habitat Life Support

A complete overview of contemporary radiological practice, this new edition provides all the information that a trainee needs to master in order to successfully take their professional certification examinations as well as providing the practicing radiologist with a refresher on topics that may have been forgotten. This new edition gives you a succinct but comprehensive account of all currently available imaging modalities and their clinical applications. Totally re-written, the book covers all of the areas that a trainee radiologist needs to master and provides the radiologist in clinical practice with a compact overview of the current "state of play" of imaging procedures. Organized along an organ and systems basis this resource covers all diagnostic and interventional imaging modalities in an integrated correlative fashion. The text is enhanced and clarified throughout by approx. 4,000 high quality illustrations.

The 2008 U.S. presidential campaign offered a unique opportunity to evaluate the usefulness and applicability of social media technology in the American political environment. This study's assessment of the role that social media played during the 2008 U.S. presidential campaign confirms some widely held tenets of conventional wisdom about social media, but it also indicates that the role of social media as the new sine qua non of American politics is far from certain. 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.

The proven guide to learning medical vocabulary-now offering even more opportunities to learn, practice, and connect up-to-date vocabulary with real healthcare clients and careers. This comprehensive, proven text offers a logical, simple system for learning medical vocabulary primarily by building terms from word parts. "Medical Terminology for Health Care Professionals, "8/e first introduces medical terminology and its essential suffixes and prefixes; then guides students logically through each key body system, working from the outside in, and from simple systems to complex. Additional specialty chapters cover oncology, radiology/nuclear medicine, and more; this edition's mental health chapter is fully revised for DSM-5, published May 2013. Every chapter is built around a color-coded word list showing how word parts are built, pronounced, and defined. Most pages also contain vibrant images, including anatomically precise drawings, authentic medical photos, and engaging labeling activities. Updated throughout, this Eighth Edition's new features include: Combining Forms tables with meanings; streamlined and improved discussions of anatomy; Rule Reminders; integrated Study and Review Exercise sections throughout each system chapter; new case study vignettes; Practical Application Exercises using modern EHR records; and many new images. Teaching and Learning Experience This text will help health professionals quickly master the modern terminology of healthcare, and master techniques for decoding any new term, in any area of healthcare, throughout their careers. Its key differentiators include: Intuitive "word parts" approach to building medical vocabulary: A step-by-step approach proven to build both mastery and confidence in students with a wide range of backgrounds and goals Innovative pedagogy, including extensive opportunities to deepen understanding through practice (both print and online): Provides everything from EHR-based application exercises to pronunciation guides and Spanish-language translators Broad coverage that goes far beyond many medical terminology books: Includes coverage of topics ranging from cancer to mental illness, anatomy and physiology to lifespan considerations, thereby preparing students to enter a wider spectrum of careers

This volume gathers the proceedings of the International Conference on Medical and Biological Engineering, which was held from 16 to 18 May 2019 in Banja Luka, Bosnia and Herzegovina. Focusing on the goal to 'Share the Vision', it highlights the latest findings, innovative solutions and emerging challenges in the field of Biomedical Engineering. The book covers a wide range of topics, including: biomedical signal processing, medical physics, biomedical imaging and radiation protection, biosensors and bioinstrumentation, bio-micro/nano technologies, biomaterials, biomechanics, robotics and minimally invasive surgery, and cardiovascular, respiratory and endocrine systems engineering. Further

topics include bioinformatics and computational biology, clinical engineering and health technology assessment, health informatics, e-health and telemedicine, artificial intelligence and machine learning in healthcare, as well as pharmaceutical and genetic engineering. Given its scope, the book provides academic researchers, clinical researchers and professionals alike with a timely reference guide to measures for improving the quality of life and healthcare.

As a professional resource for all doctors, oncologists and urologists involved in the care of uro-oncology patients, this book puts emphasis on developing advanced practice with in-depth discussions to support evidence based, patient focused care. Urological Oncology, Second Edition offers an updated multi-disciplinary and multi professional approach to the assessment, diagnosis, treatment and follow-up care of patients being investigated and treated for urological malignancies. Mainly aimed at oncologists and urologists, it is also useful for general physicians as well as trainee nurses and nurse practitioners in urology / urological oncology.

Hopi Basket Weaving is written and illustrated over the pages of an old book of the same title, pasted up with drawings, paintings and text about Lieberman's recent exhibitions and projects. The result is something between a catalogue raisonné and an artist's book, full of carefully casual juxtapositions and a few remaining basket weavers peeking out from behind the collages. Lieberman quotes Pat Robertson, Dennis Cooper and Susan Sontag; handwrites (in aquatint) a resume listing such gems as, "fired for urinating in the food;" and riffs, with sly humor, on advertising. He burns a copy of Everything is Illuminated and zips its ashes into a sandwich bag above the slogan "Everything is Illuminated / Everything is Eliminated / Everything is Laminated." More seriously and with colossal effectiveness, he posits that, "What happens in Africa, stays in Africa." Painstakingly designed by Lieberman, this is the first publication of his work.

This volume constitutes the refereed proceedings of the 9th International Conference on Image and Signal Processing, ICISP 2020, which was due to be held in Marrakesh, Morocco, in June 2020. The conference was cancelled due to the COVID-19 pandemic. The 40 revised full papers were carefully reviewed and selected from 84 submissions. The contributions presented in this volume were organized in the following topical sections: digital cultural heritage & color and spectral imaging; data and image processing for precision agriculture; machine learning application and innovation; biomedical imaging; deep learning and applications; pattern recognition; segmentation and retrieval; mathematical imaging & signal processing.

Breast cytopathology is a field characterized by practicality and diagnostic efficacy. This book focuses mainly on morphology, with helpful hints for recognizing benign lesions and the main features of malignancy. It reviews specific features of various lesions and the consequences of the diagnosis for the management of the patient. Each chapter contains high-quality cytology images accompanying the descriptions, including comparison images to distinguish the most important morphological features and to help in the differential diagnosis. Fine needle aspiration cytology (FNAC) sampling and preparation technique, fixation, staining, and principles of its interpretation are covered. Immunocytochemistry and ancillary techniques are outlined, as well as the main clinical and radiological features of breast lesions, and the cytological diagnostics of axillary lymph nodes. This publication will be of great

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use to medical practitioners in their first approach to breast cytopathology, as well as to pathologists and cytotechnicians with little to moderate experience in the field.

The book gives an overview on formulation, mathematical analysis and numerical solution procedures of contact problems. In this respect the book should be of value to applied mathematicians and engineers who are concerned with contact mechanics.

Since different types of stem cells for therapeutic applications have recently been proposed, this timely volume explores various sources of stem cells for tissue and organ regeneration and discusses their advantages and limitations. Also discussed are pros and cons for using embryonic stem cells, induced pluripotent stem cells, and adult stem cells isolated from postnatal tissues.

Different types of adult stem cells for therapeutic applications are also reviewed, including hematopoietic stem cells, epidermal stem cells, endothelial progenitors, neural stem cells, mesenchymal stem cells, and very small embryonic-like stem cells. This book also addresses paracrine effects of stem cells in regenerative medicine that are mediated by extracellular microvesicles and soluble secretome. Finally, potential applications of stem cells in cardiology, gastroenterology, neurology, immunotherapy, and aging are presented. This is an ideal book for students and researchers working in the stem cell research field.

This is the first book compiling current research on the gut-bone signaling axis and its implications in the pathophysiology of GI and bone diseases. Rather than focusing on a single mechanism, this book provides the reader with a broad view on gut-bone signaling and the most up-to-date information in this rapidly growing area. The volume is also unique in that it looks at what is known about GI diseases affecting bone and then examines the role of the microbiome and its modulation by pre and probiotics to treat bone disease, placing this topic within the context of gut-bone signaling pathways. Understanding the Gut-Bone Signaling Axis will thus provide an understanding of how various therapies could be applied to this area.

Here's the perfect self-teaching guide to help anyone master differential equations--a common stumbling block for students looking to progress to advanced topics in both science and math. Covers First Order Equations, Second Order Equations and Higher, Properties, Solutions, Series Solutions, Fourier Series and Orthogonal Systems, Partial Differential Equations and Boundary Value Problems, Numerical Techniques, and more.

Biomedical Natural Language Processing is a comprehensive tour through the classic and current work in the field. It discusses all subjects from both a rule-based and a machine learning approach, and also describes each subject from the perspective of both biological science and clinical medicine. The intended audience is readers who already have a background in natural language processing, but a clear introduction makes it accessible to readers from the fields of bioinformatics and computational biology, as well. The book is suitable as a reference, as well as a text for advanced courses in biomedical natural language processing and text mining.

A monograph on the theory of this procedure and its application to environmental monitoring. Considers all variants of stripping methods as a group of techniques used to study and analyze both solutions and solids. Reflects new qualitative standards attained by recently used electroanalytical stripping methods.

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Become a conscientious prescriber! Using an integrated approach, this singular text focuses on patient first, helping you consider each patient as a unique individual with specific health concerns and characteristics that affect therapeutic decision making and drug efficacy. Organized by disease state, this book will introduce you to general drug classifications and the medicinal agents most likely to be encountered in primary care settings. It encompasses the pharmacological principals, dosing, patient education, pharmacodynamics, and therapeutic parameters and indications for commonly prescribed drugs.

Percutaneous Surgery of the Upper Urinary Tract: Handbook of Endourology contains five focused, review-oriented volumes that are ideal for students and clinicians looking for a comprehensive review rather than a whole course. Each volume is easily accessible through eBook format. Topics covered review both the endourological diagnosis and treatment of prostate, urethral, urinary bladder, upper urinary tract, and renal pathology. All chapters describe the most recent techniques, review the latest results, and analyze the most modern technologies. In the past ten years, the field of endourology has expanded beyond the urinary tract to include all urologic minimally invasive surgical procedures. Recent advancements in robotic and laparoscopic bladder surgery make this one of the fastest moving fields in medicine. As current textbooks are too time-consuming for busy urologists or trainees who also need to learn other areas of urology, this collection provides quick references and over 4000 images that are appropriate for fellows as well as those teaching in the field. Offers review content for urologists in training and “refresher” content for experts in endourology Explores new surgical techniques and technology through review-level content and extensive images of pathologies Includes over 500 images per volume; images taken from more than 4000 endourologic procedures performed annually at the editor’s hospital

This book is specifically designed to meet the needs of practicing radiologists by offering a practical, unified approach to PET-CT. It details how to effectively apply PET-CT in patient management. Written by radiologists who fully appreciate and understand both PET and CT, the book details an integrated understanding of PET-CT as a combined modality. Clinical topics include PET-CT of thoracic malignancies, melanoma, and breast cancer. In addition, the book reinforces fundamental concepts, such as the role of imaging diagnosis in disease management.

Written entirely by surgical urologists, *Surgical Management of Urolithiasis: Percutaneous, Shockwave and Ureteroscopy* presents a comprehensive overview of the past, present, and future of surgical techniques, with a focus on educating urologists on the full spectrum of stone procedures. In addition to the technical issues, detailed complications are described. Basic as well as advanced techniques are presented in both a didactic and visual mode with representative endoscopic images and radiographs. Recent advancements which are not routinely a core component of surgical training programs are also covered in detail. Compact and extensively illustrated, *Surgical Management of Urolithiasis: Percutaneous, Shockwave and Ureteroscopy* is a unique and valuable resource in the field of surgical urolithiasis, essential both for those currently in training and for those already in clinical practice.

"Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a

bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public."
-an excerpt

This issue of Clinics in Geriatric Medicine is devoted to Geriatric Urology. Guest Editor Tomas L. Griebing, MD, MPH has assembled a group of expert authors to review the following topics: Non-Surgical Treatment of Urinary Incontinence in Elderly Women; Outcomes of Surgery for Stress Urinary Incontinence in Older Women; Evaluation and Management of Pelvic Organ Prolapse in Elderly Women; Underactive Bladder in Older Adults; Translational Research and Voiding Dysfunction in Older Adults; Functional Brain Imaging and Voiding Dysfunction in Older Adults; The Role of Urodynamics in Elderly Patients; Associations Between Voiding Symptoms and Sexual Health in Older Adults; Asymptomatic Bacteriuria and Urinary Tract Infections in Older Adults; Comorbidity and Surgical Risk in Older Urologic Patients; Small Renal Masses in Older Adults; Prostate Cancer in Elderly Men: Active Surveillance and Other Considerations; Late Onset Hypogonadism and Testosterone Replacement in Elderly Men; and Contemporary Chemotherapy for Urologic Malignancies in Geriatric Patients.

Provides students of American Literature with introductory critical guides to the great works of American fiction. Upper Tract Urothelial Carcinoma represents the first book of its kind to be dedicated solely to UTUC. Its aim is to improve understanding and eventually care of a disease that is greatly understudied and underappreciated, yet commonly dealt with by many medical and urologic oncologists. The volume features new data regarding genetic susceptibility, gene expression studies and causative factors; contemporary concepts and controversies regarding diagnosis and staging of UTUC; prediction tools and their value in treatment decisions within each disease stage and patient selection and treatment options such as endoscopic management, distal ureterectomy, radical nephroureterectomy and chemotherapy. Up-to-date information regarding boundaries of surgical resection, indication and extent of lymphadenectomy is covered as well as the role of perioperative/neoadjuvant chemotherapy in patients with high-risk UTUC. Upper Tract Urothelial Carcinoma will be of great value to all Urologists, Medical Oncologists and fellows in Urologic Oncology as well as upper level residents in training in Urology and Medical Oncology.

This volume presents a comprehensive collection of detailed state-of-the-art protocols for gapmer-mediated RNA knockdown from leaders in the field. Chapters detail a historical and contemporary perspective of RNase H-inducing antisense oligonucleotides called gapmers and gapmer-mediated RNA knockdown for basic research and therapies. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Gapmers: Methods and Protocols aims to provide diverse applications of gapmers along with protocols that will assist readers in moving the frontier.

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Building on the traditional concept of nuclear medicine, this textbook presents cutting-edge concepts of hybrid imaging and discusses the close interactions between nuclear medicine and other clinical specialties, in order to achieve the best possible outcomes for patients. Today the diagnostic applications of nuclear medicine are no longer stand-alone procedures, separate from other diagnostic imaging modalities. This is especially true for hybrid imaging guided interventional radiology or surgical procedures. Accordingly, today's nuclear medicine specialists are actually specialists in multimodality imaging (in addition to their expertise in the diagnostic and therapeutic uses of radionuclides). This new role requires a new core curriculum for training nuclear medicine specialists. This textbook is designed to meet these new educational needs, and to prepare nuclear physicians and technologists for careers in this exciting specialty.

Bailey & Love's Short Practice of Surgery remains one of the world's pre-eminent medical textbooks, beloved by generations of surgeons, with lifetime sales in excess of one million copies. Now in its 25th edition, the content has been thoroughly revised and updated while retaining its traditional strengths. Under the stewardship of the eminent editorial team, comprising two editors with experience gained over previous editions and a third editor new to this edition, and in response to reader feedback, the content has been sub-divided into parts to ensure a logical sequence and grouping of related chapters throughout while the text features enthusiastically received in the last edition have been retained. The new edition opens with sections devoted to the underlying principles of surgical practice, investigation and diagnosis, and pre-operative care. These are followed by chapters covering all aspects of surgical trauma. The remainder of the book considers each of the surgical specialties in turn, from elective orthopaedics through skin, head and neck, breast and endocrine, cardiothoracic and vascular, to abdominal and genitourinary. Key features: Authoritative: emphasises the importance of effective clinical examination and soundly based surgical principles, while taking into account the latest developments in surgical practice. Updated: incorporates new chapters on a wide variety of topics including metabolic response to injury, shock and blood transfusion, and surgery in the tropics. Easy to navigate: related chapters brought together into clearly differentiated sections for the first time. Readable: preserves the clear, direct writing style, uncluttered by technical jargon, that has proved so popular in previous editions. User-friendly: numerous photographs and explanatory line diagrams, learning objectives, summary boxes, biographical footnotes, memorable anecdotes and full-colour presentation supplement and enhance the text throughout. Bailey and Love has a wide appeal to all those studying surgery, from undergraduate medical students to those in preparation for their postgraduate surgical examinations. In addition, its high standing and reputation for unambiguous advice also make it the first point of reference for many practising surgeons. The changes that have been introduced to the 25th edition will only serve to strengthen support for the text among all these groups.

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Invasive bladder tumors affect the muscle wall, and have a propensity to metastasize and spread to other areas of the body, and are more likely to be fatal. This book presents state-of-the-art diagnoses and treatments available for bladder cancer that has metastasised into the body. A thorough review of current practice is presented in a full color volume with more than 40 tables and 50 illustrations. The book offers a comprehensive review of the subject, covering epidemiology, screening, diagnostic factors, surgery, chemotherapy and post-operative monitoring. Most chapters are jointly written by a basic researcher and a clinician.

This book aims to equip readers with a better understanding of neuroendocrine tumors of the abdomen and explains how to manage them optimally by making use of novel therapeutic options that represent major advances on previous treatments. The most recent advances in epidemiology, genetics, molecular biology, biomarkers, pathology, diagnostics, clinical assessment, medical therapy, and surgical treatment are presented. The information and data provided will stimulate readers to develop their personal opinions on significant issues and assist in decision making in individual patients during routine clinical practice. The book features a multidisciplinary approach and is designed to meet the needs of all physicians seeking comprehensive guidance from experts on the management of patients with neuroendocrine tumors. It will also be of value for researchers wishing to acquaint themselves with the state of the art in the field and emerging research avenues. Abdominal Neuroendocrine Tumors is published in Springer's highly successful Updates in Surgery series, which now comprises more than 20 titles.

This book is intended to serve as a resource for analysts in developing and troubleshooting sample preparation methods. These are critical activities in providing accurate and reliable data throughout the lifecycle of a drug product. This book is divided into four parts:

- Part One covers dosage form and diluent properties that impact sample preparation of pharmaceutical dosage forms and the importance of sampling considerations in generating data representative of the drug product batch.
- Part Two reviews specific sample preparation techniques typically used with pharmaceutical dosage forms.
- Part Three discusses sample preparation method development for different types of dosage forms including addressing drug excipient interactions and post extraction considerations, as well as method validation and applying Quality by Design (QbD) principles to sample preparation methods.
- Part Four examines additional topics in sample preparation including automation, investigating aberrant potency results, green chemistry considerations for sample preparation and the ideal case where no sample preparation is required for sample analysis.

Acute stressful experiences or high levels of chronic stress are risk factors for mental and physical disorders. Insights into the effects of posttraumatic stress disorder and other stress-related disorders experienced by war veterans, refugees, and immigrants are presented. This volume also presents examinations of the pathological effects of stress that may disrupt the normal relationships between individuals and

their families. The health of individuals and their children may be enhanced by interventions to help them manage the effects of stressful life experiences and environments. Innovative and effective interventions are examined and their applications are recommended.

Image and Signal Processing 9th International Conference, ICISP 2020, Marrakesh, Morocco, June 4–6, 2020, Proceedings Springer Nature
This book addresses the most relevant aspects of radiation oncology in terms of technical integrity, dose parameters, machine and software specifications, as well as regulatory requirements. Radiation oncology is a unique field that combines physics and biology. As a result, it has not only a clinical aspect, but also a physics aspect and biology aspect, all three of which are inter-related and critical to optimal radiation treatment planning. In addition, radiation oncology involves a host of machines/software. One needs to have a firm command of these machines and their specifications to deliver comprehensive treatment. However, this information is not readily available, which poses serious challenges for students learning the planning aspect of radiation therapy. In response, this book compiles these relevant aspects in a single source. Radiation oncology is a dynamic field, and is continuously evolving. However, tracking down the latest findings is both difficult and time-consuming. Consequently, the book also comprehensively covers the most important trials. Offering an essential ready reference work, it represents a value asset for all radiation oncology practitioners, trainees and students.

Urolithiasis is a common and ever-increasing problem all over the world. During the last few decades, percutaneous nephrolithotomy (PCNL) has become the preferred treatment method for moderate and large volume upper tract urinary calculi. In recent years, there have been groundbreaking advances in the field of percutaneous renal surgery in the form of minimally invasive percutaneous nephrolithotomy. Various techniques have been described over the years in the area, which have improved the results of percutaneous nephrolithotomy surgery while reducing the complication rate and morbidity. This book provides a broad, state-of-the-art review in the field of minimally-invasive percutaneous nephrolithotomy. It serves as a valuable resource for Urologists, endourology fellows, and researchers interested in mini-percutaneous nephrolithotomy. The book reviews the latest data about percutaneous management of Urolithiasis from the world over, various classification systems for mini-percutaneous nephrolithotomy, armamentarium, different techniques, and multiple advances, plus the results including complications. This book serves as a valuable resource for urologists dealing with and interested in learning the newer advances in percutaneous renal surgery. It delivers a comprehensive summary of the current status of minimally-invasive percutaneous nephrolithotomy in the management of Urolithiasis. All the chapters have been written by experts in minimally invasive percutaneous nephrolithotomy and present the most recent scientific data.

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