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## Gray's Surface Anatomy and Ultrasound E-Book

### A Foundation for Clinical Practice

Elsevier Health Sciences A concise, superbly illustrated textbook that brings together a reliable, clear and up to date guide to surface anatomy and its underlying gross anatomy, combined with a practical application of ultrasound and other imaging modalities. A thorough understanding of surface anatomy remains a critical part of clinical practice, but with improved imaging technology, portable ultrasound is also fast becoming integral to routine clinical examination and effective diagnosis. This unique new text combines these two essential approaches to effectively understanding clinical anatomy and reflects latest approaches within modern medical curricula. It is tailored specifically to the needs of medical students and doctors in training and will also prove invaluable to the wide range of allied health students and professionals who need a clear understanding of visible and palpable anatomy combined with anatomy as seen on ultrasound. Concise text and high quality illustrations, photographs, CT, MRI and ultrasound scans provide a clear, integrated understanding of the anatomical basis for modern clinical practice Highly accessible and at a level appropriate for medical students and a wide range of allied health students and professionals Reflects current curriculum trend of heavily utilizing living anatomy and ultrasound to learn anatomy An international advisory panel appointed to add expertise and ensure relevance to the variety of medical and allied health markets Inclusion of latest ultrasound image modalities Designed to complement and enhance the highly successful Gray's family of texts/atlas although also effective as a stand-alone or alongside other established anatomy resources

## Rosen's Emergency Medicine - Concepts and Clinical Practice, 2-Volume Set, Expert Consult Premium Edition - Enhanced Online Features and Print, 7

## Rosen's Emergency Medicine - Concepts and Clinical Practice, 2-Volume Set

Elsevier Health Sciences This reference places the latest information at users' fingertips, and a more streamlined format makes it easy to find the exact information quickly and conveniently. Includes access to a companion Web site for additional resources.

## Clinical Ultrasound, 2-Volume Set E-Book

## Expert Consult: Online and Print

Elsevier Health Sciences Clinical Ultrasound has been thoroughly revised and updated by a brand new editorial team in order to incorporate the latest scanning technologies and their clinical applications in both adult and paediatric patients. With over 4,000 high-quality illustrations, the book covers the entire gamut of organ systems and body parts where this modality is useful. It provides the ultrasound practitioner with a comprehensive, authoritative guide to image diagnosis and interpretation. Colour is now incorporated extensively throughout this edition in order to reflect the advances in clinical Doppler, power Doppler, contrast agents. Each chapter now follows a consistent organizational structure and now contains numerous summary boxes and charts in order to make the diagnostic process practical and easy to follow. Covering all of the core knowledge, skills and experience as recommended by the Royal College of Radiologists, it provides the Fellow with a knowledge base sufficient to pass professional certification examinations and provides the practitioner with a quick reference on all currently available diagnostic and therapeutic ultrasound imaging procedures. Individual chapters organized around common template therefore establishing a consistent diagnostic approach throughout the text and making the information easier to retrieve. Access the full text online and download images via Expert Consult. Three brand new editors and many new contributing authors bring a fresh perspective on the content. Authoritative coverage of the most recent advances and latest developments in cutting edge technologies such as: colour Doppler, power Doppler, 3D and 4D applications, harmonic imaging, high intensity focused ultrasound (HIFU) microbubble contrast agents, interventional ultrasound, laparoscopic ultrasound brings this edition right up to date in terms of the changes in technology and the increasing capabilities/applications of ultrasound equipment. New sections on musculoskeletal imaging. Addition of coloured text, tables, and charts throughout will facilitate quick review and enhance comprehension.

## Abdominal Ultrasound Pocketcard Set

Borm Bruckmeier Pub Llc The Abdominal Ultrasound pocketcard Set is a comprehensive, pocket- sized, sonography report template. It describes normal ultrasound findings and the most common pathologies of the main abdominal organs as well as adjacent organs. The set includes: \*Predefined building blocks for efficient and fast reporting \*Precise measurements of organ sizes and volumes as well as pathological values \* Various graphs and diagrams (i.e. liver segments, pleural effusion, hydronephrosis) \* Various images (i.e. liver cyst, appendicitis, Ileus) \* Criteria for differentiating cysts and masses For medical students, interns, residents, nurses and ultrasound technician students.

## Abdominal Ultrasound E-Book

### How, Why and When

Elsevier Health Sciences Ultrasound continues to be one of the most important diagnostic tools in medicine and is used by a wide range of healthcare professionals across many applications. This book provides a practical, clinically relevant guide for all practitioners working in the field of abdominal ultrasound. Its aim is to enable the operator to maximize the diagnostic information and recognize the limitations of ultrasound scans. Accessible, step-by-step approach Covers the basic related anatomy, technique and ultrasound appearances together with the most common pathological processes Written at a level suitable for both students and practitioners This new edition features: 4-colour figures throughout New chapters on 'Ultrasound in infectious diseases' and 'Safety and musculoskeletal disorders Expanded sections on the bowel, and Contrast agent techniques.

## Abdomen and Superficial Structures

Lippincott Williams & Wilkins The coverage in this expanded and updated second edition will keep readers abreast of the most current trends and technologies in the field of abdominal ultrasound. Written by sonographers for sonographers, the reader is assured of accurate, efficient guidance. Beginning with a complete overview of the field, coverage includes all aspects of the medium. Pediatric and adult ultrasound are covered separately, providing a better understanding of differences and similarities. The text is organized according to organ system to ensure that the reader thoroughly understands one system before moving on to the next. More than 1,000 brilliant images illustrate both normal and abnormal features in abdominal ultrasound for use in clinical practice. The images are accompanied by summary tables, schematics, and diagrams, providing clear and cogent

guidance for use in daily practice. New chapters in this edition provide the most up-to-date information on: / vascular structures / prostate / pediatric congenital hips / pediatric spinal sonography / musculoskeletal extremities and / articulations. Over 70 new color images enhance and clarify important content. Compatibility: BlackBerry® OS 4.1 or Higher / iPhone/iPod Touch 2.0 or Higher / Palm OS 3.5 or higher / Palm Pre Classic / Symbian S60, 3rd edition (Nokia) / Windows Mobile™ Pocket PC (all versions) / Windows Mobile Smartphone / Windows 98SE/2000/ME/XP/Vista/Tablet PC

## IMRT, IGRT, SBRT

### Advances in the Treatment Planning and Delivery of Radiotherapy

Karger Medical and Scientific Publishers New high-precision technologies for the planning and delivery of radiotherapy are major advances in cancer treatment. This volume is a comprehensive guidebook to these new technologies and the many clinical treatment programs that bring them into practical use. Advances in intensity modulated radiation therapy (IMRT), 4D and adaptive treatment planning are clearly explained, and the new target localization and image-guided radiotherapy (IGRT) systems are comprehensively reviewed. Clinical tutorials fully illustrate the target definitions for the major cancer sites, and techniques for organ motion management are shown. In addition, chapters explore the technical basis for stereotactic body radiotherapy (SBRT) and the latest clinical experience with it for most organ sites.

## Ultrasound of the Gastrointestinal Tract

Springer Science & Business Media This is the second, updated and extended edition of a well-received book that offers a comprehensive overview of ultrasonographic imaging of acute and chronic gastrointestinal diseases, including acute abdomen, appendicitis, diverticulitis, inflammatory bowel diseases, neoplasms and masses, infections, malabsorption syndromes, and rare conditions. The value of ultrasound in each disorder is clearly explained and illustrated, and limitations identified. Information is also provided on recent technical developments and ultrasound applications that are likely to become of increasing importance, such as functional and 3D ultrasound, contrast agents and intraoperative ultrasound, elastography, and transperineal ultrasound. The authors are all distinguished experts in the topics they address. Ultrasound of the Gastrointestinal Tract will be a helpful guide in daily practice not only for radiologists but also for gastroenterologists, abdominal surgeons, pediatricians, and oncologists.

## The Little Handbook on PC & PNBT

### Pre-Conception and Pre-Natal Diagnostic Techniques (Prohibition of Sex Selection) Act, 1994

Socio Legal Information Cent

## Blumgart's Surgery of the Liver, Biliary Tract and Pancreas, 2-Volume Set - E-Book

Elsevier Health Sciences Balancing basic science with information on everyday clinical practice, Blumgart's Surgery of the Liver, Biliary Tract and Pancreas, 7th Edition, provides you with expert guidance and advances in the field so you can offer patients the most optimal diagnostic and surgical care. In two convenient volumes, Dr. William Jarnagin and his team of internationally recognized surgeons cover exactly what you need to know, including advances in diagnostic and surgical techniques, minimally invasive surgeries, new interventional diagnostic techniques, and all relevant diseases. This comprehensive, practical reference is designed to help you choose and perform the most appropriate procedures that will minimize inpatient hospital time, curtail costs, and reduce overall recovery time for your patients. Presents cutting-edge guidance on pathology, diagnostics, surgery and non-operative intervention of the liver, biliary tract, and pancreas in one highly regarded, authoritative reference. Covers all surgical approaches, both open and

minimally invasive. Considers all worldwide opinions and approaches to management, and includes key data on surgical outcomes to better inform clinical decision-making. Contains 161 chapters with updated references and additional figures—more than 1,500 illustrations in all. The imaging section has been reorganized to reflect a disease-based approach. Includes new and expanded sections on advances in molecular characterization of benign and malignant HPB diseases, perioperative management, interventional techniques, minimally invasive surgery and robotics, and therapeutic advances for malignant disease. Features a section dedicated entirely to operative technique, plus a new historical chapter authored by Professor Jacques Belghitti: “Hepatobiliary and Pancreatic Surgery: Historical Perspective.

## Abdominal Ultrasound

### How, why and when

As more and more practitioners are relying on ultrasound as an accepted, safe, and cost-effective diagnostic tool in everyday practice, its use in diagnosing abdominal problems is quickly increasing. This up-to-date edition includes coverage of basic anatomy, technique, and ultrasound appearances, in addition to the most common pathological processes. It serves as both a practical, clinically relevant manual and resource for professionals, as well as an invaluable textbook for students entering the field. Over 500 illustrations and high-quality scans clearly show abdominal anatomy. Practical and clinically relevant coverage addresses the concerns of both practitioners and students. Succinct, comprehensive chapters convey important points. Updated content and references reflect the most current, expert practice. Many full-color illustrations throughout provide true-to-life images of clinical conditions.

## Multi-Detector CT Imaging Handbook, Two Volume Set

CRC Press This two volume set covers the engineering and clinical benefits in diagnosis of human pathologies, including the protocols and potential of advanced tomography scanning with very high quality CT images. With contributions from world-class experts, the book examines all aspects of CT technologies related to neck-brain, cardiovascular systems, thorax, abdomen and GI system, pelvis and urinary system, and musculoskeletal system. It also provides coverage of CAD applications to CT along with a discussion of the potential dangers of CT in terms of over-radiation, particularly related to children.

## Abdomen and Thoracic Imaging

### An Engineering & Clinical Perspective

Springer Science & Business Media The book covers novel strategies of state of the art in engineering and clinical analysis and approaches for analyzing abdominal imaging, including lung, mediastinum, pleura, liver, kidney and gallbladder. In the last years the imaging techniques have experienced a tremendous improvement in the diagnosis and characterization of the pathologies that affect abdominal organs. In particular, the introduction of extremely fast CT scanners and high Magnetic field MR Systems allow imaging with an exquisite level of detail the anatomy and pathology of liver, kidney, pancreas, gallbladder as well as lung and mediastinum. Moreover, thanks to the development of powerful computer hardware and advanced mathematical algorithms the quantitative and automated\semi automated diagnosis of the pathology is becoming a reality. Medical image analysis plays an essential role in the medical imaging field, including computer-aided diagnosis, organ/lesion segmentation, image registration, and image-guided therapy. This book will cover all the imaging techniques, potential for applying such imaging clinically, and offer present and future applications as applied to the abdomen and thoracic imaging with the most world renowned scientists in these fields. The main aim of this book is to help advance scientific research within the broad field of abdominal imaging. This book focuses on major trends and challenges in this area, and it presents work aimed to identify new techniques and their use in medical imaging analysis for abdominal imaging.

## 4D Modeling and Estimation of Respiratory Motion for Radiation Therapy

**Springer Science & Business Media** Respiratory motion causes an important uncertainty in radiotherapy planning of the thorax and upper abdomen. The main objective of radiation therapy is to eradicate or shrink tumor cells without damaging the surrounding tissue by delivering a high radiation dose to the tumor region and a dose as low as possible to healthy organ tissues. Meeting this demand remains a challenge especially in case of lung tumors due to breathing-induced tumor and organ motion where motion amplitudes can measure up to several centimeters. Therefore, modeling of respiratory motion has become increasingly important in radiation therapy. With 4D imaging techniques spatiotemporal image sequences can be acquired to investigate dynamic processes in the patient's body. Furthermore, image registration enables the estimation of the breathing-induced motion and the description of the temporal change in position and shape of the structures of interest by establishing the correspondence between images acquired at different phases of the breathing cycle. In radiation therapy these motion estimations are used to define accurate treatment margins, e.g. to calculate dose distributions and to develop prediction models for gated or robotic radiotherapy. In this book, the increasing role of image registration and motion estimation algorithms for the interpretation of complex 4D medical image sequences is illustrated. Different 4D CT image acquisition techniques and conceptually different motion estimation algorithms are presented. The clinical relevance is demonstrated by means of example applications which are related to the radiation therapy of thoracic and abdominal tumors. The state of the art and perspectives are shown by an insight into the current field of research. The book is addressed to biomedical engineers, medical physicists, researchers and physicians working in the fields of medical image analysis, radiology and radiation therapy.

## The Role of Laparoscopy in Emergency Abdominal Surgery

**Springer Science & Business Media** This is the first time a book about laparoscopy in emergency abdominal surgery has been published. Numerous articles have been published in specific surgical journals, but, until now, there has not been a book that collates all the aspects of this little-known field. The aim of this volume is to achieve a complete and easy presentation of all the implications associated with laparoscopy in emergency abdominal surgery. The book should be a manual that can be easily consulted by digestive, general, and specialized surgeons, especially in an emergency. The authors' contributions are founded on evidence-based medicine, which give the book scientific credibility, but this is coupled with their experience of daily practice, which adds an important complementary dimension to evidence-based medicine. This is balanced by an emphasis on clarity and accessibility, because the ultimate aim of the book is educational. We hope this book will be frequently consulted, in depth, not only by specialist practitioners, but also by undergraduate students, new graduates and surgeons in training.

## The Software Encyclopedia 2000

A Guide for Personal, Professional and Business Users Including Application Software on CD-ROM

Update on Incidental Cross-sectional Imaging Findings, An Issue of Radiologic Clinics of North America, EBook

**Elsevier Health Sciences** This issue of Radiologic Clinics focuses on Update on Incidental Cross-sectional Imaging Findings and is edited by Drs. Douglas S. Katz and John J. Hines. Articles will include: General review on the current management of incidental findings on cross-imaging: What guidelines to use, how to follow them, and management and medical-legal considerations; Incidental findings on CT and MR of the brain; Incidental spine findings on CT and MR; Imaging of incidental thyroid nodules; Incidental lung nodules on CT:

Current Fleischner Society and other guidelines; Incidental breast findings on CT and MRI; Incidental liver findings on cross-sectional imaging; Incidental adrenal findings on CT; Incidental splenic findings on cross-sectional imaging; Incidental pancreatic cysts on cross-sectional imaging; Incidental renal findings on cross-sectional imaging; Incidental bowel findings on CT; Incidental ovarian and uterine findings on cross-sectional imaging; and more!

## A Practical Guide to Point of Care Ultrasound (POCUS)

**Springer Nature** This book covers point of care ultrasound (POCUS) in a practical, problem oriented and illustrated manner. It begins with introduction to the basic principles of medical ultrasound imaging and ultrasound guided interventions and outlines point of care ultrasound in a lucid manner for rapid learning for medical students as well as practitioners. It contains chapters on ultrasound of the airways, thoracic ultrasound including lungs and transthoracic screening echocardiogram, vascular assessment, ultrasound of the abdomen for focussed trauma assessment, gastric volume assessment and ultrasound guided interventions such as vascular cannulations, pleurocentesis, etc. along with some of the latest point of care ultrasound techniques such as ocular assessment and assessment of the foetus and placenta in the operation theatre. This book will help the intensivist, emergency physician and anaesthesiologist to learn the basics of POCUS, which ostensibly, is the future of medical practice. It also includes objective structured clinical examination (OSCE) questions after every chapter as well as multiple choice questions (MCQs) that will benefit the students greatly. The book also includes videos from some of the celebrated practitioners of POCUS providing a unique learning experience. This book is suited for students, trainees and practitioners alike. The modules of POCUS described here are part of the curriculum of anaesthesiology in the UK, USA, Singapore, Australia/ New Zealand and most of the countries. The book also covers the curriculum of POCUS in critical care and emergency medicine courses.

## Yamada's Textbook of Gastroenterology, 3 Volume Set

**John Wiley & Sons YAMADA'S Textbook of Gastroenterology** For over 25 years, Yamada's Textbook of Gastroenterology has been the most comprehensive gastroenterology reference book, combining an encyclopedic basic science approach to GI and liver disease with the latest clinical thinking, especially in diagnostic and therapeutic developments. It is universally respected across the globe. The original outstanding editorial team was led by Tadataka Yamada, MD, one of the world's leading figures in GI research. This seventh edition of the Textbook features a new set of Editors-in-Chief and a new team of Associate Editors. This new editorial team has made substantial changes and updates to the Textbook, with a greater focus on the human microbiome, obesity, bariatric endoscopy and aging, along with consolidation of many older chapters. Led by Professor Michael Camilleri and Professor Timothy C. Wang, a stellar group of associate editors have once again combined with authors in their respective fields to communicate their vast fund of knowledge and experience to make the 7th edition of this iconic textbook the most comprehensive ever published.

## Cases in Pediatric Acute Care

### Strengthening Clinical Decision Making

**John Wiley & Sons Cases in Pediatric Acute Care** presents over 100 real-world pediatric acute care cases, each including a brief patient history, a detailed history of present illness, presenting signs and symptoms, vital signs, and physical examination findings. Ideal for developing a systematic approach to diagnosis, evaluation, and treatment, this resource provides students and advanced practitioners with the tools required to deliver comprehensive care to acute, chronic and critically ill children. The cases encompass a wide range of body systems, medical scenarios, professional issues and general pediatric concerns, and feature laboratory data, radiographic images and information on case study progression and resolution. Develops the essential skills necessary to provide the best possible pediatric acute care Discusses the most appropriate differential diagnoses, diagnostic evaluation, and management plans for each case Presents cases related to pulmonary, cardiac, neurologic, endocrine, metabolic, musculoskeletal, and other body systems Highlights key points in each case to quickly identify critical information Cases in Pediatric Acute Care is an excellent resource for advanced practice provider students and pediatric healthcare providers managing acutely ill children.

## Rutherford's Vascular Surgery and Endovascular Therapy, 2-Volume Set, E-Book

Elsevier Health Sciences Encyclopedic, definitive, and state-of-the-art in the field of vascular disease and its medical, surgical, and interventional management, Rutherford's Vascular Surgery and Endovascular Therapy offers authoritative guidance from the most respected and innovative global thought leaders and clinical and basic science experts of our time. The thoroughly revised 10th Edition, published in association with the Society for Vascular Surgery and authored by multidisciplinary and international contributors, is an outstanding reference for vascular surgeons, vascular medicine specialists, interventional radiologists and cardiologists, and their trainees who depend upon Rutherford's in their practice. Under the expert editorial guidance of Drs. Anton N. Sidawy and Bruce A. Perler, it is quite simply the most complete and most reliable resource available on the art and science of circulatory diseases. Incorporates fundamental vascular biology, diagnostic techniques, and decision making as well as medical, endovascular, and surgical treatment of vascular disease. Features numerous concise and comprehensive diagnostic and therapeutic algorithms vital to patient evaluation and management. Covers all vascular imaging techniques, offering a non-invasive evaluation of both the morphology and hemodynamics of the vascular system. Employs a full-color layout, images and online videos, so readers can view clinical and physical findings and operative techniques more vividly. Contains fully updated and more concise chapters with a focused format and summary for each that provides a quick access to key information—ideal for consultation as well as daily practice. Includes expanded coverage of the business of vascular surgery, including a new section on the use of technology platforms and social media, and new chapters on telemedicine, the development and operation of outpatient dialysis centers and multispecialty cardiovascular centers, vascular information on the internet, and much more. Provides new content on key topics such as endovascular treatment of complex aortic disease, acute vascular occlusion in the pediatric population, outpatient vascular care, and anatomic surgical exposures for open surgical reconstructions.

## Textbook of Assisted Reproductive Techniques, Fourth Edition (Two Volume Set)

CRC Press Textbook of Assisted Reproductive Techniques has become a classic comprehensive reference for the whole team at the IVF clinic. The fourth edition comes more conveniently as a set of two separate volumes, one for laboratory aspects and the other for clinical applications. The text has been extensively revised, with the addition of several important new contributions on laboratory aspects including developing techniques such as PICSI, IMSI, and time-lapse imaging. The second volume focuses on clinical applications and includes new chapters on lifestyle factors, tailored ovarian stimulation, frozen-thawed embryo transfer, viral disease, and religious perspectives. As before, methods, protocols, and techniques of choice are presented by eminent international experts. The two volume set includes: ■ Volume One - Laboratory Perspectives ■ Volume Two - Clinical Perspectives

## Spiral CT of the Abdomen

Springer Science & Business Media The advent of spiral CT has led to a major breakthrough in abdominal imaging. This richly illustrated volume, written by US and European experts in the field, provides technical information on the modality and considers in depth the key pathologies of each abdominal organ system in which spiral CT has resulted in major diagnostic improvements.

## Ultrasound in Emergency Medicine

W B Saunders Company This text provides readers with the background needed to use ultrasound most effectively in critical situations. It explains basic principles, primary and secondary applications, and interpretation.

## Engineering a 3D Ultrasound System for Image-guided Vascular Modelling

Atherosclerosis is often diagnosed using an ultrasound (US) examination in the carotid and femoral arteries and the abdominal aorta. A decision to operate requires two measures of disease severity: the degree of stenosis measured using B-mode US; and the blood flow patterns in the artery measured using spectral Doppler US. However other biomechanical factors such as wall shear stress (WSS) and areas of flow recirculation are also important in disease development and rupture. These are estimated using an image-guided modelling

approach, where a three-dimensional computational mesh of the artery is simulated. To generate a patient-specific arterial 3D computational mesh, a 3D ultrasound (3DUS) system was developed. This system uses a standard clinical US scanner with an optical position sensor to measure the position of the transducer; a video capture card to record video images from the scanner; and a PC running Stradwin software to reconstruct 3DUS data. The system was characterised using an industry-standard set of calibration phantoms, giving a reconstruction accuracy of  $\pm 0.17$  mm with a 12MHz linear array transducer. Artery movements from pulsatile flow were reduced using a retrospective gating technique. The effect of pressure applied to the transducer moving and deforming the artery was reduced using an image-based rigid registration technique. The artery lumen found on each 3DUS image was segmented using a semi-automatic segmentation technique known as ShIRT (the Sheffield Image Registration Toolkit). Arterial scans from healthy volunteers and patients with diagnosed arterial disease were segmented using the technique. The accuracy of the semi-automatic technique was assessed by comparing it to manual segmentation of each artery using a set of segmentation metrics. The mean accuracy of the semi-automatic technique ranged from 85% to 99% and depended on the quality of the images and the complexity of the shape of the lumen. Patient-specific 3D computational artery meshes were created using ShIRT. An idealised mesh was created using key features of the segmented 3DUS scan. This was registered and deformed to the rest of the segmented dataset, producing a mesh that represents the shape of the artery. Meshes created using ShIRT were compared to meshes created using the Rhino solid modelling package. ShIRT produced smoother meshes; Rhino reproduced the shape of arterial disease more accurately. The use of 3DUS with image-guided modelling has the potential to be an effective tool in the diagnosis of atherosclerosis. Simulations using these data reflect in vivo studies of wall shear stress and recirculation in diseased arteries and are comparable with results in the literature created using MRI and other 3DUS systems.

## Proceedings of the National Academy of Sciences of the United States of America

### Interactions between the mammalian main and accessory olfactory systems

**Frontiers E-books** The functional cross-talk and structural interaction between the main and accessory olfactory bulb is a central problem in mammalian sensory neurobiology. The early supposition that volatile substances and pheromones, most of them hydrosoluble molecules, are exclusively sensed and decoded by the main (MOS) and accessory olfactory systems (AOS), respectively, needs to be revised. In fact, a large number of structural and functional evidences accumulated during the last few decades, suggests that rather than separated entities, the MOS and AOS act synergically, bringing about physiological and behavioural responses. The goal of the present Research Topic will be to gather original research studies and revision papers, performed by the most authoritative research groups that have recently contributed to the broad area of sensory neurobiology. Special attention should be given to contributions addressed to the MOB and AOB cross-talk, involving current neuroanatomical techniques.

### Abdominal-Pelvic MRI, 2 Volume Set

**Wiley-Blackwell** This landmark reference provides the most complete coverage of magnetic resonance imaging of the abdomen and pelvis, with particular emphasis on illustrating benign, malignant and inflammatory lesions. The first chapter provides an introduction to relevant imaging physics, summary of contrast media for body imaging, and imaging protocols. Organized by anatomic region, the text presents brief descriptions of pathophysiology followed by detailed discussion of characteristics of entities in the relevant organ or system. Extensively updated and revised throughout, the new, 3rd edition includes over

### Practical Urological Ultrasound

**Springer Science & Business Media** Imaging in medicine has been the primary modality for identification of altered structure due to disease processes. As a non-invasive, safe and relatively inexpensive imaging modality, ultrasound has been embraced by many medical specialties as the 'go to' technology. With ever changing technology and regulatory requirements, Practical Urologic Ultrasound provides a compendium of information for the practicing urologist. Written exclusively by clinical urologists, this comprehensive volume features original research on the basic science of ultrasound and explores all aspects of the subject, beginning with the physical science of ultrasound and continuing through clinical applications in urology. Bolstered with detailed illustrations and contributions from experts in the field, Practical Urologic Ultrasound is an authoritative and practical reference for all urologists in their mission to provide excellence in patient care.

## Acoustical Imaging

**Springer Science & Business Media** This book constitutes the proceedings of the 19th International Symposium on Acoustical Imaging at the Ruhr-University Bochum, Germany during April 3 -5, 1991. It was the first time that the symposium was held in Europe after major political changes happened in that area. The freedom to travel for all people from eastern European countries was an obvious reason for the great numbers of submitted abstracts and for numerous conference participants. 193 of 239 submitted contributions from 29 countries were accepted for presentation by authors from USA (13%), Canada (2%), Japan (7%), Peoples Republic of China (7%), United Kingdom (4%), France (7%), Italy (3%), Poland (4%), Soviet Union (7%), Germany (28%) and other countries (18%). 283 scientists from 29 countries attended the conference representing the interdisciplinary field between mathematics, physics, engineering and medicine. 151 papers were available for publication in this proceedings covering the topics 1. Mathematics and Physics of Acoustical Imaging 2. Components and Systems 3. Applications in Medicine and Biology 4. Applications in Nondestructive Testing 5. Remote Sensing Applications 6. Industrial Applications A relative large number of contributions on acoustical microscopy was included in the conference program within topics 3 and 4. Also, papers on "non-traditional" acoustical imaging subjects, e. g. on phonon imaging and on remote sensing in the atmosphere, have broadened the scope of the conference. The success and stimulation of the conference and of the papers presented in this volume is owed, of course to the authors and participants.

## Trauma

### A Comprehensive Emergency Medicine Approach

**Cambridge University Press** Trauma: A Comprehensive Emergency Medicine Approach is a fully illustrated, interdisciplinary overview of trauma. Using both evidence-based approaches and a practical understanding of the emergency department, it gives a broad and in-depth review of trauma care. The entire spectrum of trauma presentations is reviewed from minor soft-tissue injuries through to major life-threatening conditions. Written by over 50 expert contributors, it gives concrete and practical recommendations for evaluation, treatment, consultation and disposition decisions on both common and unusual conditions. Extensive use of photographs, illustrations and key information boxes is used to make the material accessible. Additional sections provide an overview of multiple other issues relating to emergency management of trauma including administrative, nursing, research and legal matters. This book provides an essential reference for anyone who is called upon to provide acute trauma care in the emergency department.

## Comprehensive Textbook of Diagnostic Radiology

### Three Volume Set

**Jaypee Brothers Medical Publishers**

### Optical Methods in Sensing and Imaging for Medical and Biological Applications

**MDPI** This book is a printed edition of the Special Issue "Optical Methods in Sensing and Imaging for Medical and Biological Applications" that was published in Sensors

## Manual of Diagnostic Ultrasound

**World Health Organization** A didactic, illustrated guide to the use of ultrasound as a diagnostic tool in clinical practice. Prepared by an international group of experts with wide experience in both developed and developing countries, the manual responds to the need for a basic reference text that can help doctors, sonographers, nurses, and midwives solve imaging problems when no experts are available. With this need in mind, the manual adopts a practical approach aimed at providing a thorough grounding in both the techniques of

ultrasound and the interpretation of images. The need for extensive supervised training is repeatedly emphasized. Because the clinical value of ultrasound depends so greatly on the experience and skill of the operator, the manual makes a special effort to alert readers to common pitfalls and errors, and to indicate specific clinical situations where ultrasound may not be helpful or reliable as a diagnostic tool. Explanatory text is supported by numerous practical tips, warnings, checklists and over 600 illustrations. The opening chapters explain how ultrasound works, outline the factors to consider when choosing a scanner, and introduce the basic rules of scanning, including advice on how to recognize and interpret artefacts. Guidance on the selection of ultrasound equipment includes clear advice concerning where costs can be spared and where investment is essential. The core of the manual consists of seventeen chapters providing guidance on scanning techniques and the interpretation of images for specific organs and anatomical sites, with the most extensive chapter devoted to obstetrics. Each chapter contains illustrated information on indications for scanning, preparation of the patient, including choice of transducer and setting of the correct gain, general scanning techniques, and specific techniques for identifying anatomical landmarks and recognizing abnormalities. The manual concludes with WHO specifications for a general-purpose scanner judged entirely suitable for 90-95% of the most common ultrasound examinations.

## Art of Abdominal Contouring

### Advanced Liposuction

JP Medical Ltd Art of Abdominal Contouring is a concise, richly illustrated collection of abdomen contouring procedures, edited by Sanjay Parashar, Plastic and Reconstructive Surgeon at the Cocoon Centre for Aesthetic Transformation, Dubai. Art of Abdominal Contouring is enhanced by 240 full colour images and illustrations, making this an excellent visual guide for plastic, lipoplastic and aesthetic surgeons. interactive DVD with 8 videos.

## Perez and Brady's Principles and Practice of Radiation Oncology

Lippincott Williams & Wilkins The thoroughly updated fifth edition of this landmark work has been extensively revised to better represent the rapidly changing field of radiation oncology and to provide an understanding of the many aspects of radiation oncology. This edition places greater emphasis on use of radiation treatment in palliative and supportive care as well as therapy.

## Intelligent Data analysis and its Applications, Volume II

### Proceeding of the First Euro-China Conference on Intelligent Data Analysis and Applications, June 13-15, 2014, Shenzhen, China

Springer This volume presents the proceedings of the First Euro-China Conference on Intelligent Data Analysis and Applications (ECC 2014), which was hosted by Shenzhen Graduate School of Harbin Institute of Technology and was held in Shenzhen City on June 13-15, 2014. ECC 2014 was technically co-sponsored by Shenzhen Municipal People's Government, IEEE Signal Processing Society, Machine Intelligence Research Labs, VSB-Technical University of Ostrava (Czech Republic), National Kaohsiung University of Applied Sciences (Taiwan), and Secure E-commerce Transactions (Shenzhen) Engineering Laboratory of Shenzhen Institute of Standards and Technology.

### CD-ROMs in Print

## Nelson Textbook of Pediatrics, 2-Volume Set

Elsevier Health Sciences After more than 75 years, Nelson Textbook of Pediatrics remains your indispensable source for definitive, state-of-the-art answers on every aspect of pediatric care. Embracing the new advances in science as well as the time-honored art of pediatric practice, this classic reference provides the essential information that practitioners and other care providers involved in pediatric health care throughout the world need to understand to effectively address the enormous range of biologic, psychological, and social problems that our children and youth may face. Brand-new chapters and comprehensive revisions throughout ensure that you have the most recent information on diagnosis and treatment of pediatric diseases based on the latest recommendations and methodologies. "The coverage of such a wide range of subjects relating to child health makes this textbook still the gold standard and companion for all pediatricians across the world." Reviewed by Neel Kamal, Sept 2015 "All in all, this is an excellent and detailed paediatric review textbook which represents excellent value for money..truly a textbook for the global community" Reviewed by glycosmedia.com, Sept 2015 Form a definitive diagnosis and create the best treatment plans possible using evidence-based medicine and astute clinical experiences from leading international authors-many new to this edition. A NEW two-volume layout provides superior portability and exceptional ease of use. Gain a more complete perspective. Along with a broader emphasis on imaging and molecular diagnoses and updated references, the new edition includes an increased focus on international issues to ensure relevance in pediatrics practice throughout the world. Effectively apply the latest techniques and approaches with complete updates throughout 35 new chapters, including: Innovations in Addressing Child Health and Survival in Low Income Settings; Developmental Domains and Theories of Cognition; The Reggio Emilia Educational Approach Catatonia ; Refeeding Syndrome; Altitude-associated Illness; Genetic Approaches to Rare and Undiagnosed Diseases; Healthcare?Associated Infections; Intrapartum and Peripartum Infections; Bath salts and other drugs of abuse; Small Fiber Polyneuropathy; Microbiome; Kingella kingae; Mitochondrial Neurogastrointestinal Encephalomyopathy; Nonalcoholic Fatty Liver Disease; Plagiocephaly; CNS Vasculitis; Anterior Cruciate Ligament Rupture; and Sports-Related Traumatic Brain Injury. Recognize, diagnose, and manage genetic and acquired conditions more effectively. A new Rehabilitation section with 10 new chapters, including: Evaluation of the Child for Rehabilitative Services; Severe Traumatic Brain Injury; Spinal Cord Injury and Autonomic Crisis Management; Spasticity; Birth Brachial Plexus Palsy; Traumatic and Sports-Related Injuries; Meningomyelocele; Health and Wellness for Children with Disabilities. Manage the transition to adult healthcare for children with chronic diseases through discussions of the overall health needs of patients with congenital heart defects, diabetes, and cystic fibrosis. Understand the principles of therapy and which drugs and dosages to prescribe for every disease. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

## Point of Care Ultrasound Made Easy

CRC Press Point of Care Ultrasound Made Easy (POCUSME) is an exciting and innovative book that aims to teach all healthcare professionals how to do simple and clinically relevant ultrasound scanning at the point of care. This book will help you solve clinical problems at the bedside across a range of specialty areas, including: trauma, emergency medicine, respiratory medicine, cardiology, general surgery, otolaryngology and vascular surgery. Straightforward and practical, and designed for clinicians who are generally unfamiliar with ultrasound scanning, it will make a positive difference to your clinical practice, and help improve the delivery of optimised patient care. So read the book, grab an ultrasound machine, and please embrace the Point of Care Ultrasound movement!