

Medison Ultrasound Service Manual

Provides practical guidance on the use of botulinum toxin in a wide variety of disorders, in many areas of medicine. Using clear line drawings, it describes the relevant injection sites for each condition and gives comparative dosage tables for the various formulations of toxin used in different muscle groups.

The evolution of technological advances in infrared sensor technology, image processing, "smart" algorithms, knowledge-based databases, and their overall system integration has resulted in new methods of research and use in medical infrared imaging. The development of infrared cameras with focal plane arrays no longer requiring cooling, added a new dimension to this modality. *Medical Infrared Imaging: Principles and Practices* covers new ideas, concepts, and technologies along with historical background and clinical applications. The book begins by exploring worldwide advances in the medical applications of thermal imaging systems. It covers technology and hardware including detectors, detector materials, un-cooled focal plane arrays, high performance systems, camera characterization, electronics for on-chip image processing, optics, and cost-reduction designs. It then discusses the physiological basis of the thermal signature and its interpretation in a medical setting. The book also covers novel and emerging techniques, the complexities and importance of protocols for effective and reproducible results, storage and retrieval of thermal images, and ethical obligations. Of interest to both the medical and biomedical engineering communities, the book explores many opportunities for developing and conducting multidisciplinary research in many areas of medical infrared imaging. These range from clinical quantification to intelligent image processing for enhancement of the interpretation of images, and for further development of user-friendly high-resolution thermal cameras. These would enable the wide use of infrared imaging as a viable, noninvasive, low-cost, first-line detection modality.

This book contains the papers presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2018), held on 20-22 June 2018 in Cartagena, Spain. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is divided into six main sections, reflecting the focus and primary themes of the conference. The contributions presented here will not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed, and future interdisciplinary collaborations.

This book was planned in order to announce the contents discussed in the 13th International Congress on the Ultrasound Examination of the Breast. Breast ultrasound has become an indispensable method for the diagnosis of cancer of the breast. Breast ultrasound will become more convenient and precise diagnostic method according to the development of the device. In addition, application to breast screening or medical check has started, on the other hand the interventional method has also developed.

This comprehensive reference covers the principles and techniques used in performing breast elastography, an innovative imaging technology that can dramatically reduce the need for biopsies. The book begins with an introduction of the techniques, followed by sections on how to perform each technique and methods of interpretation, and concludes with more than 60 detailed case studies. Key Features: Includes case studies covering a wide range of breast pathologies and illustrating the use of all available elastography techniques to help radiologists obtain the best images for each pathology Covers all methods of breast elastography, including shear wave and strain wave Contains more than 200 high-quality color images that demonstrate how to perform each technique Breast Elastography is an essential reference for all radiologists, residents and fellows, and sonographers involved in breast imaging and evaluation.

This comprehensive handbook and essential reference provides instant access to all the data, calculations, and equations needed for modern HVAC design.

A groundbreaking prescription for health care reform--from a legendary leader in innovation . . . Our health care system is in critical condition. Each year, fewer Americans can afford it, fewer businesses can provide it, and fewer government programs can promise it for future generations. We need a cure, and we need it now. Harvard Business School's Clayton M.

Christensen—whose bestselling *The Innovator's Dilemma* revolutionized the business world—presents *The Innovator's Prescription*, a comprehensive analysis of the strategies that will improve health care and make it affordable. Christensen applies the principles of disruptive innovation to the broken health care system with two pioneers in the field—Dr. Jerome Grossman and Dr. Jason Hwang. Together, they examine a range of symptoms and offer proven solutions. YOU'LL DISCOVER HOW "Precision medicine" reduces costs and makes good on the promise of personalized care Disruptive business models improve quality, accessibility, and affordability by changing the way hospitals and doctors work Patient networks enable better treatment of chronic diseases Employers can change the roles they play in health care to compete effectively in the era of globalization Insurance and regulatory reforms stimulate disruption in health care

This is a comprehensive, up-to-date clinical textbook on the bioeffects and safety of diagnostic ultrasound in obstetrics. It is an authoritative and detailed work, but free of technical jargon and formulas. In thirteen chapters by respected authorities from the United States, England, and Australia, it presents a well defined, logical progression of clinically relevant information beginning with a description of the ultrasound output of modern equipment. It describes the biological effects that can be produced, including the effects of ultrasound exposure on fetal development, sensitivity to diagnostic ultrasound, cavitation produced by diagnostic pulses, echocontrast agents, and acoustic streaming and radiation pressure in diagnostic applications. It also analyzes the latest clinical risk-benefit studies, cost effectiveness, and safety regulations, recommendations, and guidelines. It is unquestionably today's definitive textbook authority on safety in diagnostic ultrasound. Includes bibliographic references and index.

This book is a wide-ranging and up-to-date guide to the use of ultrasound for imaging of the thyroid that will meet the needs of novices while providing more experienced professionals with advanced information. All of the techniques employed in modern thyroid ultrasound are covered, from conventional grayscale and Doppler imaging to

elastography and contrast-enhanced ultrasound, with a focus on practical aspects and with detailed analysis of their diagnostic value and limitations. The characteristic ultrasound findings of the normal thyroid and a wide range of thyroid diseases and disorders are described with the aid of hundreds of high-quality images. Diffuse changes and thyroid lesions are discussed in depth, paying close attention to aspects of importance for early detection and differential diagnosis. In this context the authors summarize their personal experiences in the use of qualitative parameters of compression elastography and quantitative data of shear-wave elastography. In addition, a practical approach to the risk stratification of thyroid nodules is proposed. The book concludes with a resumé of the main challenges and pitfalls in thyroid ultrasound.

This book presents the proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018), held on August 26-30, 2018, in Florence, Italy. By highlighting the latest theories and models, as well as cutting-edge technologies and applications, and by combining findings from a range of disciplines including engineering, design, robotics, healthcare, management, computer science, human biology and behavioral science, it provides researchers and practitioners alike with a comprehensive, timely guide on human factors and ergonomics. It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance, while at the same time promoting the health, safety and wellbeing of individuals. The proceedings include papers from researchers and practitioners, scientists and physicians, institutional leaders, managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies, domains and productive sectors. This volume includes papers addressing Healthcare Ergonomics.

This book draws on recently acquired knowledge to provide the reader with comprehensive, up-to-date information on the full range of obstetric complications that may be encountered during the third trimester of pregnancy and puerperium. For each complication, risk factors and clinical presentation are described and detailed guidance is provided on the appropriate treatment. The lucid text is complemented by a wealth of images, diagrams, flow charts, and drawings. The volume has been compiled in collaboration with a large group of gynecologists, obstetricians and internationally renowned scientists to provide an essential guide. Accordingly, the book is of interest to practitioners across the world, enabling them to deepen their knowledge and to refine their approach to complications in daily clinical practice.

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.

During recent decades, more than 100 surgical procedures have been proposed to treat pelvic organ prolapse, and surgeons are still searching for the ideal approach. Although generally accepted guidelines and algorithms are still lacking, careful preoperative work-up and patient selection can serve as a sound basis for tailored surgery. In this comprehensive book, leading experts from around the world provide a detailed, up-to-date overview of the diagnostic and surgical approaches employed in patients with prolapse of the middle or posterior pelvic floor compartment. Each surgical technique is explained step by step with the aid of instructive figures. Guidance is also included on the management of surgical complications and of recurrent disease – aspects that are too frequently overlooked in the scientific literature. This book will prove essential reading for all who are interested in functional colorectal disorders of the pelvic floor and will represent a unique and invaluable source of knowledge for general surgeons, colorectal surgeons, and urogynecologists, whether in training or practice. ?

This collective work identifies the latest developments in the field of the automatic processing and analysis of digital color images. For researchers and students, it represents a critical state of the art on the scientific issues raised by the various steps constituting the chain of color image processing. It covers a wide range of topics related to computational color imaging, including color filtering and segmentation, color texture characterization, color invariant for object recognition, color and motion analysis, as well as color image and video indexing and retrieval. Contents 1. Color Representation and Processing in Polar Color Spaces, Jesús Angulo, Sébastien Lefèvre and Olivier Lezoray. 2. Adaptive Median Color Filtering, Frédérique Robert-Inacio and Eric Dinet. 3. Anisotropic Diffusion PDEs for Regularization of Multichannel Images: Formalisms and Applications, David Tschumperlé. 4. Linear Prediction in Spaces with Separate Achromatic and Chromatic Information, Olivier Alata, Imtihan Qazi, Jean-Christophe Burie and Christine Fernandez-Maloigne. 5. Region Segmentation, Alain Clément, Laurent Busin, Olivier Lezoray and Ludovic Macaire. 6. Color Texture Attributes, Nicolas Vandenbroucke, Olivier

Alata,Christèle Lecomte, Alice Porebski and Imtnan Qazi. 7. Photometric Color Invariants for Object Recognition, DamienMuselet. 8. Color Key Point Detectors and Local Color Descriptors, DamienMuselet and Xiaohu Song. 9. Motion Estimation in Color Image Sequences, Bertrand Augereauand Jenny Benois-Pineau.

This book constitutes the refereed joint proceedings of the International Workshop on Bio-Imaging and Visualization for Patient-Customized Simulations, BIVPCS 2017, and the International Workshop on Point-of-Care Ultrasound, POCUS 2017, held in conjunction with the 20th International Conference on Medical Imaging and Computer-Assisted Intervention, MICCAI 2017, in Québec City, QC, Canada, in September 2017. The 12 full papers presented at BIVPCS 2017 and the 7 full papers presented at POCUS 2017 were carefully reviewed and selected. The papers feature research from complementary fields such as signal and image processing, mechanics, computational vision, mathematics, physics, informatics, computer graphics, bio-medical-practice, psychology and industry as well as ultrasound image systems applications.

As is the case in all fields of medicine, developmental endocrinology is now being studied at the molecular level. In this volume world-class researchers review the advances of the past decade in the study of normal and abnormal organogenesis of the thyroid gland and of the ontogeny of its function. They describe human thyroid development and its defects with the help of genetic studies in mouse models. Genetic defects of thyroid hormone synthesis are covered and their clinical relevance debated. The important field of thyroid cancer in the context of spontaneous occurrence and as part of familial neoplasia syndromes is described in detail. Finally, the important problem of environmental iodine deficiency which has emerged as a global public health concern is addressed. For the first time, a decade of work is presented in a concise and highly readable form. Offering valuable insight both for senior clinicians and graduate students, this publication will be of central interest to basic scientists involved in developmental biology as well as to pediatricians and endocrinologists dealing with patients with congenital disorders of thyroid function.

This volume presents the proceedings of the Brazilian Congress on Biomedical Engineering (CBEB 2018). The conference was organised by the Brazilian Society on Biomedical Engineering (SBEB) and held in Armação de Buzios, Rio de Janeiro, Brazil from 21-25 October, 2018. Topics of the proceedings include these 11 tracks: • Bioengineering • Biomaterials, Tissue Engineering and Artificial Organs • Biomechanics and Rehabilitation • Biomedical Devices and Instrumentation • Biomedical Robotics, Assistive Technologies and Health Informatics • Clinical Engineering and Health Technology Assessment • Metrology, Standardization, Testing and Quality in Health • Biomedical Signal and Image Processing • Neural Engineering • Special Topics • Systems and Technologies for Therapy and Diagnosis

Step by Step to Proficiency in Diagnostic Ultrasound This workbook is divided into lessons that guide you—like an instructor in an ultrasound course—systematically through the individual organ systems and body regions. Key features of the fourth edition: Special multiple-exposure photos demonstrate the dynamics of handling the transducer Triplet-image units vividly illustrate transducer positioning, the ultrasound image, and relevant anatomy Reference numbers on the accompanying diagrams help you to both actively develop your knowledge and to test it at any time. The legend located on the back cover flap is the key to the reference numbers that are used consistently in each diagram. Quiz images at the end of each chapter are the perfect tool for rigorous self-evaluation Physical fundamentals are presented in vibrant, illustrative diagrams Numerous practical tips and tricks make it easy to familiarize yourself with ultrasound A primer on ultrasound interpretation explains specialized terminology concisely and clearly Precise descriptions of algorithms for transducer positioning facilitate real-time examinations Videos (online access) showing relevant ultrasound anatomy, optimal transducer positioning, and the images you will see on the monitor during examination let you experience the content live—a perfect complement to the book that will greatly improve your retention of the material.

Discover new concepts in cardiovascular and hemodynamic functionality in fetomaternal medicine, from leading experts in the field.

This excellent textbook provides up-to-date information on all aspects of pelvic floor disorders. After an opening section on anatomy and physiology, it explains the methodology, role and application of the integrated imaging approach in detail, including the most advanced 3D, 4D, and dynamic ultrasound techniques, illustrated with hundreds of images. It then discusses in depth the epidemiology, etiology, assessment, and management of the full range of pelvic floor disorders from multidisciplinary and practical perspectives. The book also provides information on the various forms of obstetric perineal trauma, urinary incontinence and voiding dysfunction, anal incontinence, pelvic organ prolapse, constipation and obstructed defecation, pelvic pain and sexual dysfunction, and fistulas, and includes treatment algorithms as well as helpful guidance on what to do when surgical treatment goes wrong. The authors are leading experts in the field from around the globe. Since the first edition from 2010 (more than 200,000 chapter downloads), the book has been extensively rewritten and features numerous additional topics. The result is a comprehensive textbook that is invaluable for gynecologists, colorectal surgeons, urologists, radiologists, and gastroenterologists, beginners and veterans alike.

A text on the rotator cuff, with nine chapters written by Burkhead himself, and the remaining 24 chapters contributed by nationally and internationally recognized physicians and shoulder surgeons. The volume contains seven sections: history of cuff repair (1 chapter); basic science and the rotator cuff (3 chapters); evaluation and classification of cuff lesions (3 chapters); clinical disorders (10 chapters); conservative treatment of cuff defects and impingement syndrome (2 chapters); arthroscopic management of rotator cuff disease (1 chapter); and surgical management of massive cuff tears and degeneration (13 chapters). Thoroughly illustrated in bandw, with extensive chapter references. Annotation copyright by Book News, Inc., Portland, OR

The book covers the latest updates in the application of infrared to biomedical sciences, a non-invasive, contactless, safe and easy approach imaging of skin and tissue temperatures. Its diagnostic procedure allows practitioners to identify the locations of abnormal chemical and blood vessel activity such as angiogenesis in body tissue. Its non-invasive approach works by applying the technology of the infrared camera and state-of-the-art software, where high-resolution digital infrared imaging technology benefits highly from enhanced image production, standardized image interpretation protocols, computerized comparison and storage, and sophisticated image enhancement and analysis. The book contains contributions from global prominent scientists in the area of infrared applications in biomedical studies. The target audience includes academics, practitioners, clinicians and students working in the area of infrared imaging in biomedicine.

This workbook offers structured, course-like learning, and just like an instructor in an ultrasound course, it guides you systematically through the individual organ systems. The accompanying videos demonstrate basic anatomy for ultrasound, optimum transducer positioning, and the interaction between transducer position and monitor display, allowing you to experience the learning points in real time for a deeper, visual understanding. Highlights of the third edition: Multiple-exposure photos demonstrate the dynamics of handling the transducer Triple-image sets clearly show transducer positioning, the ultrasound image, and an anatomic diagram of the site Numbered structures on the anatomic diagrams help you learn new information and test your retention at any time. The legend on the back-cover flap folds out for quick reference. Each structure is referred to by the same number throughout the book Numerous quiz images at the end of each chapter give you an opportunity to test your knowledge Physical principles are explained concisely with clear, accessible diagrams Various tips and tricks make it easier for beginners to get started Ultrasound Teaching Manual is the perfect introduction to diagnostic ultrasound if you are taking an ultrasound course and would like to prepare yourself systematically for this course or consolidate what you have learned are a physician or student who wants to become familiar with diagnostic ultrasound in independent study; or are a resident in internal medicine, radiology, surgery, gynecology, anesthesiology, or pediatrics who wants to solidify your ultrasound experience.

This textbook & atlas provides an excellent survey of this now very wide field: Detailed sonographic presentations of normal findings are followed in each case by the corresponding pathological findings, using the most recent images available. To make learning easier, most of the ultrasound images are compared with intraoperative, postoperative, or postpartum photographs of clinical & pathological conditions. Transvaginal sonography which is growing in importance alongside abdominal photography, is also given broad consideration. Numerous statistical graphs & tables, & an extensive list of references, round off this work.

Ultrasound of the Male Genitalia presents a comprehensive, evidence based reference as well as a practical guide for the performance and interpretation of the male genital ultrasound examination. The volume begins with the history of male genital ultrasound and includes a discussion of regulations surrounding the performance of ultrasound examinations by urologists. The book provides a comprehensive review of ultrasound physics, image quality and patient safety. Normal ultrasound anatomy and common pathologic findings are covered in depth. Illustrations are used throughout the text to clarify complex topics. Practical scanning protocols for both the testes and the phallus, which are compliant with both accrediting organizations and third party payers, are described with their corresponding images. Also, included is a detailed discussion of color, power and spectral Doppler as well developing technologies such as sonoelastography in the diagnosis of male genitalia pathology. With broad contributions from authorities in the field, Ultrasound of the Male Genitalia is a valuable resource to urologists, andrologists, fellows and residents and others interested in male genital ultrasound.

Not everyone is a friend of the manifold abbreviations that have by now become a part of the scientific language of medicine. In order to avoid misunderstanding these abbreviations, it is wise to refer to a reliable dictionary, such as this one prepared by Heister. The abbreviation ED means, for instance, effective dose to the pharmacologist. However, it might also stand for emetic dose. Radiologists use the same abbreviation for erythema dose, and ED could also mean ethyl dichlorarsine. A common meaning of ECU is European currency unit, a meaning that might not be very often in scientific medical publications. ECU, however, also means environmental control unit or European Chiropractic Union. Hopefully, those making inventions and discoveries will make use of Heister's dictionary before creating new abbreviations when preparing manuscripts for scientific publications. It is a very worthwhile goal not to use the same abbreviation for several different terms, especially if it is already widely accepted to mean only one of them. It may be impossible, however, to achieve this goal in different scientific disciplines. Therefore, although it is wise for the abbreviations used in a publication to be defined, it is also very helpful for readers and writers to use a dictionary such as this one. The author deserves our warmest thanks since we know that compiling such a comprehensive dictionary is based upon incredibly hard effort.

Viewed from a scientific historical angle, perinatal medicine is a still young special interdisciplinary field of medicine which came into being during the middle of the 20th century. Thanks to the scientific and medical activities of one of the editors of this volume, Professor Erich Saling, who is also called "The Father of Perinatal Medicine", essential impulses and innovations were achieved. With the introduction of fetal blood analysis he made it possible to gain access to the unborn infant, which today is regarded as a milestone at the beginning of Perinatal Medicine. For the first time, human medicine entered the intrauterine space. With the exception of the collection of articles by Rooth and Saugstad published in 1985, in the history of perinatal medicine there only exist single papers of various sub-disciplines (for example fetal surveillance sub partu, ultrasonography) either as an article in a magazine, or as a chapter in an appropriate text book. Up to now there has been no publication that presents in an integrative way the history of the still young speciality. The main emphasis will be on the time period up to the early 70s (that means the early stages of Perinatal Medicine), however, both scientific precursors and later developments are mentioned shortly, when opportune. The authors of this volume are qualified specialists and some of them have decades of experience in the field they describe.

The Working Group M.O. (Interactions of soil minerals with organic components and microorganisms) (WGMO) of the International Soil Science Society (ISSS) was founded in 1990 at the 14th World Congress of Soil Science (Kyoto, Japan), with Professor P.M. Huang being the Chairman. Since then, the Working Group M.O. has served as a forum to bring together soil chemists, soil mineralogists, soil microbiologists, soil biochemists, soil physiologists and environmental, ecological, and health scientists. The objective of the Working Group M.O. is to promote research, teaching, and also the exchange of technology concerning the knowledge and the impact of the interactions between minerals-organics and microorganisms on environmental quality, agricultural sustainability, and ecosystem "health". This group is first a scientific group as defined just previously, but it also intends to develop exchange and transfer between scientists and engineers. The first International Meeting organized by Professor P. M. Huang, was held in Edmonton, Canada, in August 1992, where 87 papers were presented by scientists from 20 countries. Following this meeting, a two volume book was edited by P. M. Huang, J. Berthelin, J.-M. Bollag, W. B. McGill, and A. L. Page, entitled "Environmental impact of soil component interaction" : Volume I "Natural and anthropogenic organic-volume II "Metals, other inorganic and microbial activities", and published by C.R.C. Lewis Publishers (1995).

Practical Urological Ultrasound Humana Press

Make optimal use of the latest diagnostic and interventional ultrasound applications in your practice! This new edition of the world's best-selling reference on obstetric and gynecologic ultrasound guides you through all of the newest ultrasound technologies, enabling you to diagnose problems accurately. The entire book has been radically updated by many new contributors to reflect all of the most recent advances, including greatly expanded information on 3-D ultrasound and the latest generation of ultrasound scanners, as well as significantly increased discussions of gynecologic ultrasound. What's more, over 2,400 digital-quality images - 1,050 in full color - capture the characteristic appearance of a full range of ultrasound findings, and a new full-color format makes reference easier than ever. The result is an essential purchase for everyone who uses ultrasound for fetal and gynecologic diagnosis and treatment. Get dependable guidance on any clinical issue or challenge by consulting the world's most popular, trusted reference on ob/gyn ultrasound! Obtain optimal results by applying the masterful expertise of world-renowned authority Peter W. Callen, MD, as well as a care of other top specialists on the diagnostic

and interventional applications of ultrasound. Make optimal use of all of the latest developments, including 3-D ultrasound, the use of the latest generation of ultrasound scanners, the growing role of ultrasound in gynecologic imaging. Diagnose with confidence by comparing your imaging findings to more than 2,400 digital-quality images - 1,050 in full color - that depict the complete range of normal and abnormal imaging presentations. Locate information more quickly thanks to a new highly templated, full-color format. Visualize key anatomic details more clearly with hundreds of medical illustrations redrawn in full color.

This book on urologic ultrasound has proven to be beneficial to urologists in training and currently in practice, and is structured by organ system for the practice of urology in the outpatient/office setting. The second edition expands on current techniques and procedures, includes ultrasound images, and gives new information on the use of ultrasound for the diagnosis and management of male reproductive conditions. The updated edition also discusses ultrasound in the intraoperative setting, chapters on male reproduction, ultrasound protocols, and standards for urologic practices performing ultrasound. Bolstered with detailed illustrations and contributions from experts in the field, Practical Urologic Ultrasound, Second Edition is an authoritative and practical reference for all urologists worldwide in their mission to provide excellence in patient care.

This is the second edition of a very popular book on DICOM that introduces this complex standard from a very practical point of view. It is aimed at a broad audience of radiologists, clinical administrators, information technologists, medical students, and lecturers. The book provides a gradual, down to earth introduction to DICOM, accompanied by an analysis of the most common problems associated with its implementation. Compared with the first edition, many improvements and additions have been made, based on feedback from readers. Whether you are running a teleradiology project or writing DICOM software, this book will provide you with clear and helpful guidance. It will prepare you for any DICOM projects or problem solving, and assist you in taking full advantage of multifaceted DICOM functionality. Medical abortion care encompasses the management of various clinical conditions including spontaneous and induced abortion (both viable and non-viable pregnancies), incomplete abortion and intrauterine fetal demise, as well as post-abortion contraception. Medical management of abortion generally involves either a combination regimen of mifepristone and misoprostol or a misoprostol-only regimen. Medical abortion care plays a crucial role in providing access to safe, effective and acceptable abortion care. In both high- and low-resource settings, the use of medical methods of abortion have contributed to task shifting and sharing and more efficient use of resources. Moreover, many interventions in medical abortion care, particularly those in early pregnancy, can now be provided at the primary-care level and on an outpatient basis, which further increases access to care. Medical abortion care reduces the need for skilled surgical abortion providers and offers a non-invasive and highly acceptable option to pregnant individuals.

Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography is a practical, fully referenced, image-based guide to the essential concepts of reproductive ultrasound in domesticated ruminants and camelids. Providing information to enable practitioners to incorporate ultrasound service into their practices, the book also includes more specialized information for advanced techniques such as fetal sexing, embryo transfer, color Doppler, and others. Practical Atlas of Ruminant and Camelid Reproductive Ultrasonography is a must-have reference for ruminant and camelid practitioners, instructors, and students. Image fusion technology has successfully contributed to various fields such as medical diagnosis and navigation, surveillance systems, remote sensing, digital cameras, military applications, computer vision, etc. Image fusion aims to generate a fused single image which contains more precise reliable visualization of the objects than any source image of them. This book presents various recent advances in research and development in the field of image fusion. It has been created through the diligence and creativity of some of the most accomplished experts in various fields.

This book provides an in-depth coverage not only of liver pathology but also of diagnosis of the numerous types of liver disease, placing specific emphasis on current treatments of liver pathology including the most up-to-date information on liver transplantation. The first part provides an in-depth account of the liver pathology in different conditions such as Hepatitis, liver ischaemia reperfusion injury, Lyme disease, cirrhotic cardiomyopathy and hepatocellular carcinoma. The second part provides a comprehensive overview of diagnostic methods. Of particular interest are chapters on the latest techniques in Patient-specific 3D printing and transient elastography (FibroScan). The final part focuses on treatment and provides a step-by step guide to the therapeutic management of liver diseases starting with pharmacological treatment and techniques including surgery and liver transplantation. This is an invaluable book for clinicians, practitioners including academics, scientists/researchers and postgraduates to provide the newest knowledge in the field of liver pathogenesis. It is written by a multidisciplinary team of experts in hepatology, gastroenterology, and surgery especially from liver transplantation.

Ultrasonographic guidance for regional anaesthetic blocks is an innovative technique that allows for the direct visualization of nerves, adjacent structures and the position of the needle, as well as for the precise observation of the spread of local anaesthetic. The advantages of the technique allow for the exact administration of moderate volumes of local anaesthetic, reducing the risk of complications. Written by a physician with 16 years' experience in ultrasound-guided regional anaesthesia, this second edition of the well-received practical handbook provides a concise summary of the basics of ultrasound technology and the most recent techniques in the use of ultrasound to guide peripheral nerve blocks, focusing specifically on ultrasound-guided peripheral nerve block techniques. All chapters have been carefully revised to provide the most recent knowledge in the topic of ultrasound in regional anaesthesia. A strong focus has still been attached on anatomical descriptions and subsequent practical implementations. Paediatric applications are now included in this new edition to aid paediatric anaesthesiologists, as well as the incorporation of neuraxial techniques to complete the entire topic. With illustrated colour images throughout, this book is highly relevant to anaesthesiologists and pain specialists with an interest in regional anaesthesia.

In this book, globally renowned orthopedic, plastic, and hand surgeons provide the knowledge required in order to understand and resolve the full range of problems associated with diseases, anomalies, deformities, and trauma of the thumb. The opening section describes the history of "making a thumb" and covers the fundamentals of anatomy, embryology, and functional dynamics. After careful presentation of the surgical procedures for various developmental anomalies of the thumb, subsequent sections focus on the treatment of bone and joint, tendon, and nerve problems encountered in patients with different diseases and injuries. All aspects of the surgical management of benign and malignant tumors of the thumb are then described. The final section is devoted to current and emerging treatments for trauma, including amputation and microsurgical and non-microsurgical reconstruction. The text is supported by superb clinical photographs as well as high-quality schematic drawings and video clips. The book will be of value not only to practicing surgeons but also to residents and medical students.

[Copyright: 39928cc7447770b54c0601e86fb5e393](https://www.pdfdrive.com/39928cc7447770b54c0601e86fb5e393)