

Diagnostic Imaging Chest 2nd Edition

The third edition of Carvers' Medical Imaging supports radiography students to take a reflective, evidence-based approach that will enhance their practice. This important textbook comprehensively covers the full range of medical imaging methods and techniques in one volume, and discusses them in relation to imaging principles, radiation dose, patient condition, body area and pathologies. It encourages the student to critically analyse their work rather than simply carrying out tasks. The book has been updated by an impressive team of contributors to align with developments in both radiographic techniques and the role of the radiographer. It is an essential companion for students of BSc (Hons) diagnostic radiography, those undertaking a foundation degree in radiographic practice or bachelor of medicine, and postgraduates alike. Comprehensive, fully illustrated and well referenced discussion of all imaging techniques. Full image evaluation for radiographic examinations, including common errors New material on potential impact of errors on accuracy of the radiographic report New sections on preliminary clinical evaluation for projection radiography examinations, which prepares students for UK professional standards Section on cross infection implications (relevant post COVID-19) Includes imaging of children with suspected physical abuse

Covering the entire spectrum of this fast-changing field, Diagnostic Imaging: Chest, third edition, is an invaluable resource for general radiologists, thoracic radiologists, and trainees-anyone who requires an easily accessible, highly visual reference on today's thoracic imaging. Drs. Melissa L. Rosado-de-Christenson, Santiago Martínez-Jiménez, and their team of highly regarded experts provide up-to-date information on recent advances in technology and the understanding of chest diseases to help you make informed decisions at the point of care. The text is lavishly illustrated, delineated, and referenced, making it a useful learning tool as well as a handy reference for daily practice. Serves as a one-stop resource for key concepts and information on chest imaging, including a wealth of new material and content updates throughout Features more than 2,800 illustrations (full-color drawings, clinical and histologic photographs, and gross pathology images) as well as video clips demonstrating the diaphragmatic paralysis positive sniff test, virtual bronchoscopy fly-through, and more Features updates from cover to cover including new information on pulmonary manifestations of coronavirus infection/COVID-19 and numerous new chapters throughout Reflects updates in terminology and imaging findings of common neoplastic disorders (including primary lung cancer and lymphoma), and novel imaging findings of inhalational lung diseases, including those related to vaping Covers common thoracic malignancies and chest diseases with details on the latest knowledge in the field, including lung screening with low-dose chest CT, approach to the patient with incidentally discovered lung nodules, and updates on the imaging manifestations and management recommendations for common pulmonary infections Uses bulleted, succinct text and highly templated chapters for quick comprehension of essential information at the point of care Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices

Imaging of the pediatric chest continues to evolve rapidly – and this is reflected in the fact that all of the chapters in this second edition of the classic and superbly illustrated reference work have been extensively updated. Readers will find additional disease-specific information and numerous new illustrations. The role of advanced technology in the diagnosis of pediatric chest disorders is highlighted, special attention being paid to the technical aspects of modern imaging modalities, their indications, and the diagnostic information that they supply.

Since the publication of the best-selling, highly acclaimed first edition, the technology and clinical applications of medical imaging have changed significantly. Gathering these developments into one volume, Webb's Physics of Medical Imaging, Second Edition presents a thorough update of the basic physics, modern technology and many examples of clinical application across all the modalities of medical imaging. New to the Second Edition Extensive updates to all original chapters Coverage of state-of-the-art detector technology and computer processing used in medical imaging 11 new contributors in addition to the original team of authors Two new chapters on medical image processing and multimodality imaging More than 50 percent new examples and over 80 percent new figures Glossary of abbreviations, color insert and contents lists at the beginning of each chapter Keeping the material accessible to graduate students, this well-illustrated book reviews the basic physics underpinning imaging in medicine. It covers the major techniques of x-radiology, computerised tomography, nuclear medicine, ultrasound and magnetic resonance imaging, in addition to infrared, electrical impedance and optical imaging. The text also describes the mathematics of medical imaging, image processing, image perception, computational requirements and multimodality imaging.

This book provides clinicians with a broader understanding of screening and preventive diagnosis using radiological imaging. The first part of the book is dedicated to the fundamentals of screening and preventive diagnosis. The second part of the book discusses the most important practical examples of radiological screening and surveillance, both for unselected populations, as well as for individual risk groups.

As part of the successful THE REQUISITES series, the second edition of Thoracic Radiology: The Requisites, by Theresa McLoud, MD and Phillip Boiselle, MD, presents the most essential information you need to know about chest radiology, including some of the more recent techniques in chest imaging such as CTA and PET imaging. Its concise and up-to-date coverage prepares you for examinations and clinical practice. Abundantly illustrated with over 800 images and covering all functional units of chest organs, this book discusses diagnostic imaging of the most frequently seen problems and the interventional techniques performed in thoracic radiology. Find what you need quickly and easily – Numerous tables, charts and boxes summarize clinical features, pathology and radiographic signs to reinforce important techniques. See imaging findings as they appear in

practice covering the full array of thoracic conditions. Get all you need to know from this comprehensive yet concise source which contains the essential principles that residents and practitioners need to know. Keep up with cutting-edge topics such as the new classification of interstitial pneumonias, the impact of helical CT in diagnosing pulmonary embolism, CT angiography, computed radiography, three-dimensional imaging of the airways, and emerging infections and bioterrorism infectious agents. Expand your understanding of PET imaging and pulmonary vascular abnormalities, as well as many other topics, with updated and enhanced chapters that feature new images throughout. Written by renowned experts in chest imaging, Chest Imaging Case Atlas, Second Edition enables radiology residents, fellows, and practitioners to hone their diagnostic skills by teaching them how to interpret a large number of radiologic cases. This atlas contains over 200 cases on conditions ranging from Adenoid Cystic Carcinoma to Wegener Granulomatosis. Each case is supported by a discussion of the disease, its underlying pathology, typical and unusual imaging findings, management, and prognosis, providing a comprehensive overview of each disorder. Special Features of the Second Edition: Over 1500 high-quality images demonstrating normal and pathologic findings and their variations More multiplanar, CT angiographic (CTA), MRI, and 3D imaging is incorporated into the text, helping readers stay current with this rapidly changing technology 40 new cases and updated images in cases from the previous edition A new post-thoracotomy chest section addresses normal post-operative findings and complications associated with common thoracic interventional procedures The neoplastic diseases section includes the new TNM staging system for lung cancer The adult cardiovascular disease section now contains a discussion on univentricular and biventricular or end-stage heart failure including various ventricular assist devices and the Total Artificial Heart, their imaging features, and complications associated with their use The diffuse lung disease section has been expanded to include an approach to HRCT interpretation Case discussions are based on up-to-date reviews of current literature as well as classic landmark articles Pearls are provided to describe the features that may strongly support a specific diagnosis, enabling readers to sharpen their clinical diagnostic skills This book is an invaluable illustrated reference that all physicians in radiology and chest imaging in particular, including pulmonary medicine physicians and thoracic surgeons, should have on their bookshelf.

Learning Radiology: Recognizing the Basics, 2nd Edition, is an image-filled, practical, and clinical introduction to this integral part of the diagnostic process. William Herring, MD, a skilled radiology teacher, masterfully covers everything you need to know to effectively interpret medical images. Learn the latest on ultrasound, MRI, CT, and more, in a time-friendly format with brief, bulleted text and abundant high-quality images. Then ensure your mastery of the material with additional online content, bonus images, and self-assessment exercises at www.studentconsult.com. Identify a wide range of common and uncommon conditions based upon their imaging findings. Quickly grasp the fundamentals you need to know through easy-access bulleted text and more than 700 images. Arrive at diagnoses by following a pattern recognition approach, and logically overcome difficult diagnostic challenges with the aid of decision trees. Learn from the best, as Dr. Herring is both a skilled radiology teacher and the host of his own specialty website, www.learningradiology.com. Easily master the fundamental principles of MRI, ultrasound, and CT with new chapters that cover principles of each modality and the recognition of normal and abnormal findings. Know the basics and be more confident when interpreting diagnostic imaging studies

Over 10 years have passed since the first edition of The Mediastinum was published in 1977. I have been very gratified by the response to the first edition and determined to do a second edition as soon as possible. However, good intentions are sometimes difficult to achieve and a decade has passed. This period has been one of enormous growth in the discipline of diagnostic imaging. In the study of the mediastinum, computed tomography, and more recently magnetic resonance, have revolutionized our diagnostic capabilities. This second edition of the mediastinum is intended to emphasize the importance of these modalities to the evaluation of mediastinal disease. In addition, an attempt will be made to integrate into the text the many new and important observations relating to all aspects of mediastinal imaging which have appeared in the literature since 1977. The overall emphasis, however, will remain the same: that accurate radiologic diagnosis is based upon a thorough understanding of correlated radiographic anatomy and pathology. No matter what the imaging modality, this principle remains fundamental to each and every radiographic interpretation. I would like to express once again my deep appreciation to Dr. Stephen A. Kieffer, Chairman of the Department of Radiology at the State University of New York Health Science Center at Syracuse for his continued support and encouragement.

It is a great privilege to introduce this book devoted to the current and future roles in research and clinical practice of another exciting new development in MRI: Diffusion-weighted MR imaging. This new, quick and non-invasive technique, which requires no contrast media or ionizing radiation, offers great potential for the detection and characterization of disease in the body as well as for the assessment of tumour response to therapy. Indeed, whereas DW-MRI is already firmly established for the study of the brain, progress in MR technology has only recently enabled its successful application in the body. Although the main focus of this book is on the role of DW-MRI in patients with malignant tumours, non-oncological emerging applications in other conditions are also discussed. The editors of this volume, Dr. D. M. Koh and Prof. H. Thoeny, are internationally well known for their pioneering work in the field and their original contributions to the literature on DW-MRI of the body. I am very much indebted to them for the enthusiasm and engagement with which they prepared and edited this splendid volume in a record short time for our series Medical Radiology – Diagnostic section.

"Reflecting recent major advances in the field, Miller's Imaging of the Chest, 2nd Edition, by Drs. Christopher M. Walker and Jonathan H. Chung, remains your go-to reference for all aspects of chest radiology, including the latest diagnostic modalities and interventional techniques. This exhaustive resource begins with a review of normal anatomy, progressing to expert coverage based first on how patients present in clinical practice, then on diagnosis or diagnostic category. This practical, easy-to-use format helps you effectively select and interpret the best imaging studies for the everyday challenges you face in thoracic imaging"--Résumé de l'éditeur.

Diagnostic Imaging: Chest (Second Edition) is the much-anticipated update to the bestselling first edition by Dr. Melissa Rosado-de-Christenson and her large team of chest radiology experts.

This new edition features an expanded section on infections, including discussion of various infections not included in the first edition. It also adds two new subsections to the chest imaging section. The first of these is an illustrated terminology section, which includes medical illustrations of important visual identifiers such as “honeycombing.” The second new subsection describes various radiographic and CT signs, such as the “finger-in-glove” sign. Also fresh in this edition is a new section devoted entirely to atelectasis, which features expanded discussion of this important topic. In all, this 980-page new edition features over 150 new chapters along with the time-saving bulleted text and stunning radiographic and medical illustrations that are hallmarks of the award-winning publications from Amirsys.

During recent years important progress in intensive medicine methods has fundamentally changed the approach to and the management of acute chest trauma, which in developed countries is frequently related to road accidents, the number of which is still rising. It is important for the radiologist to become fully acquainted with the correct interpretation of findings on conventional radiographs as well as on CT. Appropriate and rapid therapeutic action in life-threatening situations will frequently result from the skillful interpretation of radiological findings and from the full integration of the radiologist as a well qualified member of the medical and surgical team, responsible for the global management of the chest trauma patient. I am indebted to Prof. P. Schnyder and Dr. M. Wintermark for their excellent work in collecting the case material, which originates mainly from the University Hospital of Lausanne. They have been able to present a comprehensive and up-to-date overview and interventional radiological aspects related to chest trauma. of great interest to all hospital-based radiologists, I am convinced that this volume will be and also to thoracic surgeons or intensive care physicians dealing with chest trauma patients. It is my sincere wish that this volume meet the same success with clinicians as many other volumes in our series. Leuven ALBERT L. BAERT Preface Diagnostic imaging has experienced astonishing developments during the relatively short period of its existence. We are just entering the second century of the medical use of x-rays.

Diagnostic Imaging Chest Lippincott Williams & Wilkins

Take image interpreting one step at a time with Essentials of Radiology, the most accessible radiology text on the market for gaining a foothold on the fundamentals. Breathe easy - this reference assumes no prior knowledge of radiology, making it the perfect choice for anyone just starting out in the field. Whether you're a student or resident, you'll appreciate how expert radiologist, Dr. Mettler, masterfully distills all the information you need, in precisely the right way. Gain a rich understanding of recent advances in the diagnostic imaging of abdominal, pelvic, and retroperitoneal conditions, and take advantage of this text's sharp focus on the most common pathologic entities and rarer life-threatening conditions. Explore the radiologic evaluation of headaches, hypertension, low back pain, and other challenging conditions.

This book, written by leading experts from many countries, provides a comprehensive and up-to-date description of how to use 2D and 3D processing tools in clinical radiology. The opening section covers a wide range of technical aspects. In the main section, the principal clinical applications are described and discussed in depth. A third section focuses on a variety of special topics. This book will be invaluable to radiologists of any subspecialty.

Reflecting recent major advances in the field, Müller's Imaging of the Chest, 2nd Edition, remains your go-to reference for all aspects of chest radiology, including the latest diagnostic modalities and interventional techniques. This exhaustive resource begins with a review of normal anatomy, progressing to expert coverage based first on how patients present in clinical practice, then on diagnosis or diagnostic category. This practical, easy-to-use format helps you effectively select and interpret the best imaging studies for the everyday challenges you face in thoracic imaging. Provides extensive new information on lung cancer screening, detailing the technique required to perform a lung cancer screening CT as well as how to interpret these examinations using ACR Lung-RADS. Contains four all-new chapters: Idiopathic pleuroparenchymal fibroelastosis, Interstitial pneumonia with autoimmune features, Non-infectious complications of lung and stem cell transplantation, and Leukemia. Updates you on recent advances regarding interstitial lung disease diagnosis, diffuse idiopathic pulmonary neuroendocrine cell hyperplasia (DIPNECH), interstitial pneumonia with autoimmune features (IPAF), pleuroparenchymal fibroelastosis, and much more. Explains the recent CT classification in usual interstitial pneumonia/idiopathic pulmonary fibrosis (UIP/IPF) diagnosis and what features are required to correctly categorize a CT into one of four specific patterns. Covers current topics such as bacterial, viral, fungal, and parasitic infections, and new staging and histologic classifications for various lung neoplasms including lung cancer and mesothelioma. Features more than 3,100 superior, large digital-quality images (many in full color) depicting all of the chest imaging findings you're likely to see, and helping you distinguish between conditions with similar manifestations. Provides boxes highlighting key points to assist you with report writing, as well as suggestions for treatment and future imaging studies. Features a full-color design throughout, color-coded tables, classic signs boxes, and bulleted lists that highlight key concepts and get you to the information you need quickly. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

This is the ideal resource for all those requiring an authoritative and up-to-date review of imaging appearances of diseases of the lung, pleura and mediastinum. Chest radiography and CT are integrated with other imaging techniques, including MRI and PET, where appropriate. The clinical and pathologic features of different diseases are provided in varying degrees of detail with more in depth coverage given to rarer and less well understood conditions. A single volume, comprehensive reference text on chest radiology. Provides in a single resource all of the information a generalist in diagnostic radiology needs to know. Concisely and clearly written by a team of 4 internationally recognized authors. Avoids the inconsistency, repetition, and unevenness of coverage that is inherent in multi-contributed books. Multimodality coverage integrated throughout every chapter. All of the applicable imaging modalities are covered in a clinically relevant, diagnostically helpful way. Approximately 3,000 high quality, good-sized images. Provides a complete visual guide that the practitioner can refer to for help in interpretation and diagnosis. Covers both common and uncommon disorders. Provides the user with a single comprehensive resource, no need to consult alternative resources. Access the full text online and download images via Expert Consult Access the latest version of the Fleischner Society's glossary of terms for thoracic imaging. Outlines, summary boxes, key points used throughout. Makes content more accessible by highlighting essential information. Brand new color images to illustrate Functional imaging techniques. Many of the new imaging techniques can provide functional as well as anatomic information. Introduction of a second color throughout in summary boxes in order to better highlight key information. There's a wealth of key information in the summary boxes—will be highlighted more from the narrative text and will therefore be easier to access. Practical tips on identifying anatomic variants and artefacts in order to avoid diagnostic pitfalls. Many misdiagnoses are the result of basic errors in correlating the anatomic changes seen with imaging to their underlying pathologic processes. Latest techniques in CT, MRI and PET as they relate to thoracic diseases. The pace of development in imaging modalities and new applications/refined techniques in existing modalities continues to drive radiology forward as a specialty. Emphasis on cost-effective image/modality selection. Addresses the hugely important issue of cost-containment by emphasizing which imaging modality is helpful and which is not in any given clinical

diagnosis. COPD and Diffuse Lung Disease, Small Airway disease chapters extensively up-dated. Access the full text online and download images via Expert Consult Access the latest version of the Fleischner Society's glossary of terms for thoracic imaging.

Designed to help you quickly learn or review normal anatomy and confirm variants, *Imaging Anatomy: Chest, Abdomen, Pelvis* provides detailed views of anatomic structures in successive imaging slices in each standard plane of imaging. Axial, coronal, sagittal, and 3D reconstructions accompany highly accurate and detailed medical drawings, assisting you in making an accurate diagnosis. Comprehensive coverage of the chest, abdomen, and pelvis, combined with an orderly, easy-to-follow structure, make this unique title unmatched in its field. Includes all relevant imaging modalities, 3D reconstructions, and highly accurate and detailed medical drawings that illustrate the fine points of the imaging anatomy. Depicts common anatomic variants and covers common pathological processes as a part of its comprehensive coverage. Provides a detailed overview of airway and interstitial network anatomy—the basis for understanding and diagnosing interstitial lung disease. Features representative pathologic examples to highlight the effect of disease on human anatomy. Includes plain radiography, the latest generation of multi-planar advanced cross-sectional MR and CT, ultrasound for pelvis/renal/liver/gallbladder, barium for GI tract, and much more. Offers state of the art, detailed pelvic floor imaging and perianal/perirectal fistula imaging using high-resolution CT and MR, including 3T MR. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, images, and references from the book on a variety of devices.

This new edition is a complete guide to diagnostic imaging of the chest and cardiovascular system. Beginning with an overview of chest radiology, techniques and anatomy, the following sections discuss imaging for different pulmonary diseases. The second part of the book covers diagnostic imaging for cardiovascular disorders and includes a chapter on children with congenital heart disease. The fourth edition has been fully revised to provide radiologists with the latest information in their field, and includes new chapters on basic patterns of lung disease on CT, and miscellaneous interstitial lung diseases such as acute respiratory distress syndrome, lipoid pneumonia, and emphysema. The comprehensive text features discussion on the increasing use of image-guided interventions, and is further enhanced by radiological images and tables. Key points. Fourth edition presenting latest advances in diagnostic imaging for pulmonary and cardiovascular disorders. Fully revised text with new topics added. Highly illustrated with radiological images and tables. Previous edition (9788184488685) published in 2010.

Written by Fred F. Ferri, MD, FACP, author of many best-selling books for primary care practice, *Ferri's Best Test, 2nd Edition*, equips you to quickly choose the most efficient and cost-effective diagnostic approach, including imaging or lab tests. Updates throughout, including more than 180 new tests...additional diagnostic modalities...and new algorithms...make this unique and user-friendly reference a must for determining which diagnostic tests to order. A portable, pocket-sized format allows for convenient consultation anytime, anywhere. Offers concise, well-organized guidance to the most common lab tests and diagnostic imaging modalities, all in one single resource, that makes reference remarkably fast and easy. Describes the most common imaging studies for each organ system, reviewing their indications, advantages, disadvantages, and approximate costs to simplify your decision-making process. Examines over 384 laboratory tests, describing the normal range of results in adult patients, typical abnormalities (positive tests, increased or decreased values), and the likeliest causes. Explores 231 common diseases and disorders, providing algorithms to help you select the single best test for diagnosing each condition. Features a portable, pocket-sized format that allows for convenient consultation anytime, anywhere. Features 184 new tests in an expanded laboratory test section; 8 additional diagnostic radiological modalities, including computed tomographic colonography, video capsule endoscopy, and intravascular ultrasonography; and 30 new algorithms in an expanded algorithm section, to provide you with the latest options for obtaining optimal diagnostic outcomes. Includes IU units added to all laboratory tests, to make the guidance more useful to clinicians practicing outside of the US.

Reflecting recent major advances in the field, *Müller's Imaging of the Chest, 2nd Edition*, by Drs. Christopher M. Walker and Jonathan H. Chung, remains your go-to reference for all aspects of chest radiology, including the latest diagnostic modalities and interventional techniques. This exhaustive resource begins with a review of normal anatomy, progressing to expert coverage based first on how patients present in clinical practice, then on diagnosis or diagnostic category. This practical, easy-to-use format helps you effectively select and interpret the best imaging studies for the everyday challenges you face in thoracic imaging. Provides extensive new information on lung cancer screening, detailing the technique required to perform a lung cancer screening CT as well as how to interpret these examinations using ACR Lung-RADS. Contains four all-new chapters: Idiopathic pleuroparenchymal fibroelastosis, Interstitial pneumonia with autoimmune features, Non-infectious complications of lung and stem cell transplantation, and Leukemia. Updates you on recent advances regarding interstitial lung disease diagnosis, diffuse idiopathic pulmonary neuroendocrine cell hyperplasia (DIPNECH), interstitial pneumonia with autoimmune features (IPAF), pleuroparenchymal fibroelastosis, and much more. Explains the recent CT classification in usual interstitial pneumonia/idiopathic pulmonary fibrosis (UIP/IPF) diagnosis and what features are required to correctly categorize a CT into one of four specific patterns. Covers current topics such as bacterial, viral, fungal, and parasitic infections, and new staging and histologic classifications for various lung neoplasms including lung cancer and mesothelioma. Features more than 3,100 superior, large digital-quality images (many in full color) depicting all of the chest imaging findings you're likely to see, and helping you distinguish between conditions with similar manifestations. Provides boxes highlighting key points to assist you with report writing, as well as suggestions for treatment and future imaging studies. Features a full-color design throughout, color-coded tables, classic signs boxes, and bulleted lists that highlight key concepts and get you to the information you need quickly.

High-Yield Gross Anatomy™, Fifth Edition provides a concise review of gross anatomy material tested on course and board exams. The streamlined outline format includes tables, diagrams, case studies, and clinical imaging -- perfect for a quick brush-up or last-minute review. Now in full color! The fifth edition features a fresh, full-color design with new clinical photos, concise illustrations, and additional must-know clinical concepts.

A well-illustrated, systems-based primer on learning radiologic imaging *Basic Radiology* is the easiest and most effective way for medical students, residents, and clinicians not specializing in radiologic imaging to learn the essentials of diagnostic test selection, application, and interpretation. This trusted guide is unmatched in its ability to teach you how to select and request the most appropriate imaging modality for a patient's presenting symptoms and familiarize yourself with the most common diseases that current radiologic imaging can best evaluate. Features: More than 800 high-quality images across all modalities. A logical organ-system approach. Consistent chapter presentation that includes: ---Recap of recent developments in the radiologic imaging of the organ system discussed ---Description of normal anatomy ---Discussion of the most appropriate imaging technique for evaluating that organ system ---Questions and imaging exercises designed to enhance your understanding of key principles. Brief list of suggested readings and general references. Timely chapter describing the various diagnostic imaging techniques currently available, including conventional radiography, nuclear medicine, ultrasonography, computed tomography, and magnetic resonance imaging. An important chapter providing an overview of the physics of radiation and its related biological effects, ultrasound, and magnetic resonance imaging. Preceded by *Thoracic radiology / Theresa McCloud, Phillip Boiselle. 2nd ed. c2010.*

This book offers a comprehensive overview of thoracic pathologies of surgical interest involving the lung, mediastinum, esophagus, and chest wall with the aim of providing both radiologists and thoracic surgeons with a reference of high value in everyday clinical practice. Oncologic and non-oncologic conditions are reviewed from both the radiological and the surgical point of view, each one being

documented with the aid of high-quality radiologic images from several modalities (including X-ray, fluoroscopy, CT, MR, and PET), illustrations/artwork, and high-definition images from the surgical table. The postoperative anatomy and complications associated with thoracic surgery procedures are also described in detail, with provision of imaging examples that highlight aspects of importance in differentiating between normal and abnormal findings. Written by experts in the field, Diagnostic Imaging for Thoracic Surgery is exceptional in combining precise descriptions of surgical procedures with key teaching points in imaging interpretation.

"Like other Amirsys books, Thoracic Neoplasms uses a succinct bulleted text style and image-rich depictions of neoplastic diseases of the thorax. Neoplasms of the lungs, airways, mediastinum (including thymic and esophageal neoplasms among others), heart, great vessels, pleura, and chest wall are discussed in detail. This book expands on the material presented in Diagnostic Imaging - Chest, second edition, with much more detailed information on the imaging features of specific chest neoplasms in various thoracic organs and locations with histologic correlations where appropriate."--Provided by publisher.

This book, now in its fourth edition, is unique in detailing in depth the technological basis of radiation therapy. Compared with the previous edition, all chapters have been rewritten and updated. In addition, new chapters have been included on various topics, including the use of imaging in treatment planning, second malignant neoplasms due to irradiation, and quality assurance in radiation oncology. The book is divided into two sections. The first covers basic concepts in treatment planning, including essential physics, and explains the various approaches to radiation therapy, such as intensity-modulated radiation therapy, tomotherapy, and high and low dose rate brachytherapy. The second part documents the practical clinical applications of these concepts in the treatment of different cancers. All of the chapters have been written by leaders in the field. This book will serve to instruct and acquaint teachers, students and practitioners in the various fields of oncology with the basic technological factors and approaches in radiation therapy.

Revised to reflect the current cardiothoracic radiology curriculum for diagnostic radiology residency, this concise text provides the essential knowledge needed to interpret chest radiographs and CT scans. This edition includes nearly 800 new images obtained with state-of-the-art technology and a new chapter on cardiac imaging. A new patterns of lung disease section provides a one-stop guide to recognizing and understanding findings seen on thin-section CT. This edition also includes the new classification of idiopathic interstitial pneumonias, current techniques for evaluating solitary pulmonary nodules, an algorithm for managing incidental nodules seen on chest CT, the new World Health Organization classification of lung tumors, and numerous new cases in the self-assessment chapter.

Medical Imaging has been revised and updated to reflect the current role and responsibilities of the radiographer, a role that continues to extend as the 21st century progresses. This comprehensive book covers the full range of medical imaging methods/techniques which all students and professionals must understand, and discusses them related to imaging principles, radiation dose, patient condition, body area and pathologies. There is comprehensive, up-to-date, referencing for all chapters, with full image evaluation criteria and a systematic approach to fault recognition for all radiographic projections. Highly respected editors, Elizabeth and Barry Carver, have brought together an impressive team of contributing authors, comprising academic, radiographer and radiologist clinical experts. NEW TO THIS EDITION Full colour, including approximately 200 new colour photographs All techniques have been updated to reflect the use of digital image receptors All chapters have been updated to reflect current practice, eg CT colonoscopy is now included as part of GI imaging; the nuclear medicine chapter now introduces hybrid imaging; the genitourinary chapter now reflects the use of ultrasound and CT 'The authors have been comprehensive, thorough and innovative. This well-presented book should be adopted by Schools of Diagnostic Imaging in Europe and elsewhere and be a constant companion to the reflective radiographic practitioner.' From the foreword to the first edition by Patrick Brennan. Medical Imaging has been revised and updated to reflect the current role and responsibilities of the radiographer, a role that continues to extend as the 21st century progresses. This comprehensive book covers the full range of medical imaging methods/techniques which all students and professionals must understand, and discusses them related to imaging principles, radiation dose, patient condition, body area and pathologies. There is comprehensive, up-to-date, referencing for all chapters, with full image evaluation criteria and a systematic approach to fault recognition for all radiographic projections. Highly respected editors, Elizabeth and Barry Carver, have brought together an impressive team of contributing authors, comprising academic, radiographer and radiologist clinical experts. Full colour, including approximately 200 new colour photographs. All techniques have been updated to reflect the use of digital image receptors. All chapters have been updated to reflect current practice, eg CT colonoscopy is now included as part of GI imaging; the nuclear medicine chapter now introduces hybrid imaging; the genitourinary chapter now reflects the use of ultrasound and CT.

Amirsys is pleased to introduce the 2nd edition of the bestselling Diagnostic Imaging: Pediatrics. In this fully revised and updated new edition, Dr. Lane Donnelly and his team of renowned physicians skillfully guide the reader through the intricacies of pediatric radiology. Organized by organ system, this book includes fast-reading, bulleted sections on airway, chest, cardiac, gastrointestinal, genitourinary, musculoskeletal, brain, spine, and head and neck. The chapters in these sections include essential diagnostic information for over 365 diagnoses, including normal variants and post-procedural appearances. This volume prominently features over 2,500 new images, including MR, CT, US, and professionally designed, anatomically correct medical illustrations. Each image is annotated with critical diagnostic information. Hallmarks of this new edition include prose introductions to each chapter, cancer staging tables, additional diagnoses, more images, and updated references. Building upon the solid foundation of the first edition, this most recent volume of Diagnostic Imaging: Pediatrics is set to become the new gold standard of pediatric radiology imaging texts.

Imaging plays a central role in the evaluation of the acutely ill patient. In the current age, it would be unthinkable not to have a state-of-the-art emergency room without a closely stationed multidetector CT scanner. Diagnostic Imaging: Emergency, 2nd edition is intended as a readable and approachable reference for all major traumatic and non-traumatic diagnoses that can be encountered in the acutely ill patient. The book evaluates multiple organ systems including the brain, spine, chest, abdomen, pelvis and musculoskeletal system in both adults and pediatric patients. Furthermore, the organization was designed to provide the ideal model for a quick reference text. The book is divided into two large parts - Trauma and Non-Trauma - and within each of these parts, diagnoses within each individual organ system are thoughtfully divided to provide an organized approach. Each section has an Introduction that is designed to explain the appropriate work-up for the specific clinical scenario. Diagnostic Imaging: Emergency, 2nd edition is designed to be a resource for all physicians taking care of acutely ill patients. FEATURES: Published by Amirsys, a globally recognized medical information publisher. Written by experts for each organ system: Brain, Spine, Chest, Abdomen, Pelvis, and Musculoskeletal System Fully updated references from previous edition Features nearly 260 chapters and hundreds of annotated images and illustrations Comes with Amirsys eBook Advantage(tm), an online eBook featuring expanded content, additional eBook images, and fully searchable text.

This brilliantly illustrated second edition provides a comprehensive and up-to-date discussion of the subject. It is written primarily from the point of view of the paediatric radiologist but will be of particular interest to all those involved in caring for the neonate, from antenatal ultrasonographers, to paediatricians and paediatric surgeons. It includes an update on clinical management and appraises the advantages of the various techniques available to image the newborn chest.

Since the second edition of Pediatric Chest Imaging was published in 2007, there have been further significant advances in our understanding of chest diseases and continued development of new imaging technology and techniques. The third, revised edition of this highly respected reference publication has been thoroughly updated to reflect this progress. Due attention is paid to the increased role of hybrid imaging, and entirely new chapters cover topics such as interventional radiology, lung MRI, functional MRI, diffuse/interstitial lung disease, and cystic fibrosis. As in previous editions, the focus is on technical aspects of modern imaging modalities, their indications in pediatric chest disease, and the diagnostic information that they supply. Pediatric Chest Imaging will be an essential asset for pediatricians, neonatologists, cardiologists, radiologists, and pediatric radiologists everywhere.

This book is an introduction to diagnostic radiology (including nuclear medicine). Written in a user-friendly format, it takes into account that radiology is divided into many subspecialties that constitute a universe of their own. The book is subdivided into ten sections, such as musculoskeletal, thoracic, gastrointestinal, cardiovascular and breast imaging. Each chapter is presented with an introduction of the subspecialty and ten case studies with illustrations and comments.

Combines clinical images, full-color illustrations and bulleted text to create a comprehensive, up-to-date resource for learning and review.

In 1994 the European Society of Urogenital Radiology (ESUR) set up a committee to consider the safety of contrast media used for diagnostic imaging. Subsequently the committee questioned members, reviewed the literature, proposed guidelines and discussed these proposals with participants at the annual symposia of the society. The end result of this work was the successful first edition of this book, published in 2006. This second edition not only updates the previous edition, but also contains some completely new chapters, for example on gadolinium-based contrast agents, meta-analyses in contrast media research and various regulatory issues. Comprehensive consideration is given to the many different safety issues relating to iodinated, MR, ultrasound and barium contrast media. The text includes chapters on both acute and delayed non-renal adverse reactions and on renal adverse reactions. All those questions frequently raised in radiological practice are addressed, and the well-known ESUR guidelines on contrast media are included. This book, presented in a handy, easy to use format, provides an invaluable, unique and unparalleled source of information on the safety issues relating to contrast media.

Written by the world's preeminent authorities on diagnostic ultrasound, the Second Edition of this bestseller guides readers through the use of ultrasound to detect and identify birth defects--including heart malformations, kidney obstructions, intestinal blockages, lung abnormalities, and more. The book offers up-to-date advice on what to look for, given a certain risk or clinical history, and how to perform and interpret the ultrasound examination. More than 1,600 images--including full-color throughout--provide a true-to-life view of ultrasound findings. Each anomaly is discussed in an easy-to-follow format that covers characteristic features...pathogenesis and etiology...differential diagnosis...prognosis...and management. This edition includes brief tables of teratogens and information on genetic markers.

Prior to the virtual atomic explosion of medical knowledge, at a time when communication was very much slower, a medical book, to be authoritative and believable, had to be written by a very knowledgeable, and, per force, usually quite senior person. The choice of texts was limited and tended to be dominated by a few "classic" (a phrase not quite synonymous with dogma). Following the information explosion, the scenario is quite different. Not only is there a geometric progression in the quantity and speed of development of new medical knowledge, but also this development is occurring at very different rates in different countries. This is particularly true in medical imaging. The result is that it is now virtually impossible to produce a "single author" book that can cover the field or even a subdivision of it. This absolute requirement for multiple authors has in turn created the need for a new type of editor/author who must be multinational in approach, have a uniquely informed appreciation of what is going on in medical imaging research throughout the entire world and possess the depth of personal knowledge and experience to judge correctly what work is the most rigorous and likely to have the greatest impact.

This is a comprehensive textbook on the imaging of pediatric skeletal trauma. It gives radiologists and pediatric surgeons a detailed description of the techniques used as well as examples of the imaging findings and details of their clinical relevance. Each chapter is written by an expert in the field and includes a wealth of illustrations. The book provides invaluable advice on those features which will affect the orthopedic management of a child.

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