

# Acces PDF Essentials Of Diagnostic Imaging

## Essentials Of Diagnostic Imaging

*This renowned work is derived from the authors' acclaimed national review course ("Physics of Medical Imaging") at the University of California-Davis for radiology residents. The text is a guide to the fundamental principles of medical imaging physics, radiation protection and radiation biology, with complex topics presented in the clear and concise manner and style for which these authors are known. Coverage includes the production, characteristics and*

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*interactions of ionizing radiation used in medical imaging and the imaging modalities in which they are used, including radiography, mammography, fluoroscopy, computed tomography and nuclear medicine. Special attention is paid to optimizing patient dose in each of these modalities. Sections of the book address topics common to all forms of diagnostic imaging, including image quality and medical informatics as well as the non-ionizing medical imaging modalities of MRI and ultrasound. The basic science important to nuclear imaging, including the nature and production of*

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*radioactivity, internal dosimetry and radiation detection and measurement, are presented clearly and concisely. Current concepts in the fields of radiation biology and radiation protection relevant to medical imaging, and a number of helpful appendices complete this comprehensive textbook. The text is enhanced by numerous full color charts, tables, images and superb illustrations that reinforce central concepts. The book is ideal for medical imaging professionals, and teachers and students in medical physics and biomedical engineering. Radiology*

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residents will find this text especially useful in bolstering their understanding of imaging physics and related topics prior to board exams. Developed from the authors' highly successful annual imaging physics review course, this new Second Edition gives readers a clear, fundamental understanding of the theory and applications of physics in radiology, nuclear medicine, and radiobiology. *The Essential Physics of Medical Imaging, Second Edition* provides key coverage of the clinical implications of technical principles--making this book

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*great for board review. Highlights of this new edition include completely updated and expanded chapters and more than 960 illustrations. Major sections cover basic concepts, diagnostic radiology, nuclear medicine, and radiation protection, dosimetry, and biology. A Brandon-Hill recommended title.*

*Comprehensive in coverage yet succinct in presentation, this new resource provides the fundamental information needed to understand practically every aspect of musculoskeletal imaging. Its quick-access format and*

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*reader-friendly style make it perfect for both radiology rotation and the busy practitioner. The chapters are designed to follow the way practitioners think, so topics are easy to find, while a step-by-step approach makes procedures easy to understand. Covers virtually all of musculoskeletal imaging including muscles and tendons, spinal disorders, the temporomandibular joint, and more. Features a complete section on pediatric musculoskeletal disorders. Provides the latest information on musculoskeletal ultrasound, MRI of major joints, and*

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*interventional procedures. Includes quick reference tables for commonly needed measurements, figures, Uses nearly 650 state-of-the-art images throughout the text to clarify concepts.*

*Musculoskeletal Imaging: The Requisites, 4th Edition delivers the conceptual, factual, and interpretive information you need for effective clinical practice in musculoskeletal imaging, as well as for certification and recertification review. Master core knowledge the easy and affordable way with clear, concise text enhanced by at-a-glance illustrations, boxes, and tables - all completely*

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*rewritten to bring you up to date. Find key information easily with numerous outlines, tables, "pearls," and boxed material for easy reading and reference.*

*Essentials of  
Musculoskeletal Imaging  
Essentials of Diagnostic  
Imaging*

*Quality and Safety in  
Medical Imaging: The  
Essentials*

*Pediatric Imaging  
Clinical Radiology*

***Imaging plays an  
increasingly vital role  
in the management of  
athletes aiding  
diagnosis, injury  
grading and prognosis,***



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*as well as guiding therapy. These processes apply equally to elite and recreational athletes young and old. I have always found that understanding the relevance of imaging findings is easier when accompanied by knowledge of the anatomy, biomechanics and pathological processes involved in injury formation. This textbook has been developed with both radiologists and sports clinicians in mind and aims to bring*

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*all these processes together and illustrate the spectrum of injury and associated clinical features for specific anatomical areas. Internationally recognized musculoskeletal experts have contributed chapters which provide an imaging and clinical overview of the most relevant joint, bone and soft tissue athletic injuries. There is guidance for the reader on why specific injuries occur, how to identify*

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*the optimal imaging evaluation and how to interpret the subsequent imaging findings. Acute and overuse injuries are discussed as well as the premature degenerative processes that occur in athletes. State-of-the-art imaging techniques and findings are presented including the use of muscu- skeletal ultrasound, conventional MR imaging and MR arthrography. Therapeutic ima- guided intervention using fuoroscopy, CT, and*

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*ultrasound is also discussed. This balance of techniques should allow a clinician whose practice focuses on one particular modality to become aware not only of that technique's abilities but other modalities and their capabilities and limitations. Leeds, UK Philip Robinson vii Contents 1 Knee Injuries*

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*1 Melanie A. Hopper and Andrew J.*

*Widely regarded as the cornerstone text in the field, the successful series of editions continues to follow the tradition of a clear and comprehensive presentation of the physical principles and operational aspects of medical imaging. The Essential Physics of Medical Imaging, 4th*

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*Edition, is a coherent and thorough compendium of the fundamental principles of the physics, radiation protection, and radiation biology that underlie the practice and profession of medical imaging.*

*Distinguished scientists and educators from the University of California, Davis, provide up-to-date, readable information on the production, characteristics, and interactions of non-*

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*ionizing and ionizing radiation, magnetic fields and ultrasound used in medical imaging and the imaging modalities in which they are used, including radiography, mammography, fluoroscopy, computed tomography, magnetic resonance, ultrasound, and nuclear medicine. This vibrant, full-color text is enhanced by more than 1,000 images, charts, and graphs, including hundreds of new illustrations. This*

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*text is a must-have resource for medical imaging professionals, radiology residents who are preparing for Core Exams, and teachers and students in medical physics and biomedical engineering.*

*"In this volume, Mark Schubert presents the full range of topics in Patient Positioning that you must know to succeed in the classroom, excel on ARRT exams, and flourish in clinical practice." "You'll review: major positions*



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*by body region; standard and modified methods (frog-leg, reverse Waters, etc); tips for finding the appropriate angles; and a section on special exams."*--BOOK JACKET.*Title Summary field provided by Blackwell North America, Inc. All Rights Reserved 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*

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*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*

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*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. Diagnostic Ultrasound Imaging: Inside Out Essentials of Pediatric Radiology Pediatric Imaging Essentials A Visual Approach to*

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*Diagnostic Imaging  
Practical Veterinary  
Diagnostic Imaging  
Accompanying software  
includes program "Primal  
3D Anatomy."*

*Practical Veterinary  
Diagnostic Imaging is an  
essential and practical  
guide to the various  
diagnostic imaging  
modalities that are used  
in veterinary practice.  
It moves from basic  
mathematic and physical  
principles through to  
discussion of equipment  
and practical methods.  
Radiographic techniques*

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*for both small and large animals are covered. There is a separate chapter devoted to ultrasound, as well as discussion of advanced imaging techniques such as fluoroscopy, computerised tomography and magnetic resonance imaging. The book also covers legislation and safety issues in the context of their impact on the veterinary practice. Presented with clear line diagrams and photographs, Practical Veterinary Diagnostic*

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*Imaging also provides revision points and self-assessment questions in each chapter to aid study. It is an ideal guide for student and qualified veterinary nurses. It is also a useful reference for veterinary students and veterinarians in general practice who want a basic guide to radiography and other imaging modalities. KEY FEATURES Everything you need to know about diagnostic imaging in veterinary practice in a*

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*language you can easily understand The basic principles of physics presented in simple terms Improves your positioning techniques with practical tips for best practice Clear guidance on the use of digital imaging to improve image quality and reduce radiation doses to patients Companion website with additional resources (available at [www.wiley.com/go/easton/diagnosticimaging](http://www.wiley.com/go/easton/diagnosticimaging))*

**Breathe easy - this**

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*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*



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*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. Approach imaging with confidence through the help of Dr. Mettler's straightforward, digestible, and enjoyable style. He makes it simple to learn*

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*the radiology basics by breaking down chapters into bodily regions or systems, equipping you with easily referenced and useful information. Take the mystery out of interpreting any image by viewing over 500 outstanding pictures. Images of disease entities are shown alongside normal ones, offering you an ideal frame of reference for accurate interpretation. Understand and apply the latest diagnostic imaging techniques with*

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*a completely updated text that mirrors today's most recent advances.*

*Written for medical students beginning clinical rotations, this book covers the topics most often included in introductory radiology courses. It emphasizes clinical problem solving, relates radiologic abnormalities to pathophysiology, and offers guidelines for selecting imaging studies in specific clinical situations.*

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*More than 1,200 images show variations in radiologic appearances of common disorders. This thoroughly revised Third Edition reflects state-of-the-art advances and includes new material on current interventional techniques and cardiac imaging. Nearly 200 new illustrations have been added and some older illustrations have been replaced by new ones reflecting contemporary imaging. This edition also includes an*

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*appendix of diagnostic  
pearls.*

*Radiation Protection*

*A Quick Guide to  
Essential Diagnoses  
Essentials of Radiology  
Chest Radiology  
As an overview to  
radiology this high  
quality text from Thieme  
provides a comprehensive  
picture of current  
imaging practice and is  
suitable for reading by a  
range of healthcare  
professionals at  
undergraduate or post-  
graduate level. -- RAD*

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***Magazine Essential  
Radiology, Third Edition,  
is an extensively revised  
and updated text that  
provides a highly  
engaging, integrated  
overview of the use of  
radiology in every  
specialty and  
subspecialty, covering all  
imaging modalities and  
organ systems. It gives  
medical students in  
radiology clerkships a  
solid understanding of  
how each imaging  
modality works and how a  
variety of pathologic  
conditions appear on***

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***different imaging modalities. Key Features: Directly correlates radiologic findings with gross pathologic specimens Contains updated discussions of clinical conditions and imaging techniques Includes high-quality imaging that illustrates the appearance of diseases and injuries in radiologic images Written by a master teacher and premier expert on medical education in the U.S. Medical students will find this book***

***indispensable for their radiology coursework and refer to it repeatedly during their training. Forensic imaging with multidetector computed tomography (MDCT) and other cross-sectional imaging modalities is a rapidly evolving field. Understanding the pathological basis of disease and death is fundamental to the interpretation of radiologic images. Forming a bridge between these distinct disciplines, Essentials of Forensic***



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### ***Imaging: A Text-Atla***

***This book covers all the essential aspects of breast imaging necessary for the preparation of MMed, MD, FRCR and FRANZCR exams. The main focus is on mammogram and breast ultrasound along with basics of breast MRI and breast interventions. With the increasing popularity of these qualifying exams among radiology residents in Asia, Great Britain as well as Australia and dearth of relevant resources on the***

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***topic, this book will serve as a valuable resource for the candidates. The book is also aligned with preparations required for the FRCPC (Canada) and the American Board of Radiology. The book is divided into two sections - first section includes chapters on basics of breast imaging along with a chapter on emerging technologies while the second section includes 50 exam-relevant cases covering imaging findings utilizing appropriate BI-RADS lexicon, possible***

***differentials, next recommended investigation and appropriate management in accordance with American College of Radiology lexicon, BI-RADS system and MRI correlation, whenever available. Readers also get familiar with the indications for breast MRI. The book is written by experts in breast imaging with relevant teaching experience. Written by an experts with strong teaching experience, this book is***

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***not only suitable for exams but is also useful for practicing breast and non-breast radiologists as well as breast care clinicians, keen to learn fundamentals of breast imaging.***

***"An excellent primer on medical imaging for all members of the medical profession . . . including non-radiological specialists. It is technically solid and filled with diagrams and clinical images illustrating important points, but it is also easily***

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***readable . . . So many outstanding chapters . . . The book uses little mathematics beyond simple algebra [and] presents complex ideas in very understandable terms." —Melvin E. Clouse, MD, Vice Chairman Emeritus, Department of Radiology, Beth Israel Deaconess Medical Center and Deaconess Professor of Radiology, Harvard Medical School A well-known medical physicist and author, an interventional radiologist,***

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***and an emergency room physician with no special training in radiology have collaborated to write, in the language familiar to physicians, an introduction to the technology and clinical applications of medical imaging. It is intentionally brief and not overly detailed, intended to help clinicians with very little free time rapidly gain enough command of the critically important imaging tools of their trade to be able to discuss***

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***them confidently with medical and technical colleagues; to explain the general ideas accurately to students, nurses, and technologists; and to describe them effectively to concerned patients and loved ones. Chapter coverage includes:***

***Introduction: Dr. Doe's Headaches Sketches of the Standard Imaging Modalities Image Quality and Dose Creating Subject Contrast in the Primary X-Ray Image Twentieth-Century (Analog) Radiography and***

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***Fluoroscopy Radiation  
Dose and Radiogenic  
Cancer Risk Twenty-First-  
Century (Digital) Imaging  
Digital Planar Imaging  
Computed Tomography  
Nuclear Medicine  
(Including SPECT and  
PET) Diagnostic  
Ultrasound (Including  
Doppler) MRI in One  
Dimension and with No  
Relaxation Mapping T1  
and T2 Proton Spin  
Relaxation in 3D Evolving  
and Experimental  
Modalities  
The Essentials  
The Essential Physics of***



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# ***Medical Imaging Clinical Presentation Pathophysiology Imaging A Text-Atlas Anatomy in Diagnostic Imaging***

Master the key concepts that are critical to the practice of pediatric radiology! Ideal as a quick refresher for experienced radiologists as well as an efficient learning tool for residents, this new text puts indispensable information at your fingertips in a practical, high-yield format. More than 1,300 superb illustrations highlight the “essentials” of the field - information that is vital to understanding the wide variety of pathologies seen in pediatric imaging.

Essentials of Pediatric Radiology: A

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Multimodality Approach provides a concise overview of both basic and complex topics encountered by pediatric radiologists in their daily practice. Written by leading pediatric radiologists from renowned children's hospitals, it focuses particularly on multimodality imaging, covering the full gamut of radiologic diagnostic techniques, including conventional radiography and ultrasound, Doppler ultrasound, up-to-date CT and MRI techniques, and PET-CT. Each chapter is generously illustrated with high quality images, as well as graphs, tables, decision flowcharts and featured cases. Chapters are arranged according to pathologies, rather than organ systems, providing the reader with clinically-oriented information when employing 'whole

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body' techniques or analysing scans involving multiple anatomical sites. The book is complemented by an outstanding free access website of sample cases containing questions and answers that enable readers to test their diagnostic proficiency - see <http://essentials-of-pediatric-radiology.com>. A key text for pediatric radiology fellows, radiology residents and general radiologists, this is also essential reading for all pediatricians.

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

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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.

Diagnostic Ultrasound Imaging provides a unified description of the physical principles of ultrasound imaging, signal processing, systems and measurements. This comprehensive reference is a core resource for both graduate students

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and engineers in medical ultrasound research and design. With continuing rapid technological development of ultrasound in medical diagnosis, it is a critical subject for biomedical engineers, clinical and healthcare engineers and practitioners, medical physicists, and related professionals in the fields of signal and image processing. The book contains 17 new and updated chapters covering the fundamentals and latest advances in the area, and includes four appendices, 450 figures (60 available in color on the companion website), and almost 1,500 references. In addition to the continual influx of readers entering the field of ultrasound worldwide who need the broad grounding in the core technologies of ultrasound, this book provides those already working

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in these areas with clear and comprehensive expositions of these key new topics as well as introductions to state-of-the-art innovations in this field. Enables practicing engineers, students and clinical professionals to understand the essential physics and signal processing techniques behind modern imaging systems as well as introducing the latest developments that will shape medical ultrasound in the future Suitable for both newcomers and experienced readers, the practical, progressively organized applied approach is supported by hands-on MATLAB® code and worked examples that enable readers to understand the principles underlying diagnostic and therapeutic ultrasound Covers the new important developments in the

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use of medical ultrasound:  
elastography and high-intensity  
therapeutic ultrasound. Many new  
developments are comprehensively  
reviewed and explained, including  
aberration correction, acoustic  
measurements, acoustic radiation  
force imaging, alternate imaging  
architectures, bioeffects: diagnostic  
to therapeutic, Fourier transform  
imaging, multimode imaging, plane  
wave compounding, research  
platforms, synthetic aperture, vector  
Doppler, transient shear wave  
elastography, ultrafast imaging and  
Doppler, functional ultrasound and  
viscoelastic models

Essentials of Forensic Imaging

Essential Radiology for Sports  
Medicine

Essentials of In Vivo Biomedical  
Imaging

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Clinical Breast Imaging: The  
Essentials

Clinical Presentation,  
Pathophysiology, Imaging

A volume in the Essentials of Medical  
Imaging Series, DIAGNOSTIC

ULTRASOUND is written by renowned  
teacher and author Stewart C.

Bushong. It lists essential facts which  
the student must know to excel on

AART exams, to thrive in the

classroom, and to succeed in clinical  
practice. Each fact is accompanied by

a concise explanation with clinical

examples. Illustrations reinforce key

concepts, and questions allow readers  
to test their knowledge. For further

learning, students are directed to  
appropriate texts identified in the

appendix.

Essential Medical Imaging is a concise  
introductory text covering the clinical



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role of radiology in adult and paediatric medicine and surgery. The emphasis is on placing radiology in a clinical context and guiding the reader to apply imaging modalities to specific clinical problems. An introductory section outlines the principles of image generation and image interpretation, as well as risks, benefits and costs. Subsequent sections review key clinical considerations and illustrate important radiology findings for each common clinical condition and patient population. A library of annotated normal radiological images and a terminology and abbreviations section are also included. A companion CD containing more detailed text and an extensive collection of clinical images accompanies the text. Highly visual and practical, Essential Medical

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Imaging is an invaluable resource for medical students, trainees in radiology, medicine & surgery, and for radiographers and all allied health professionals.

With up-to-date, easy-access coverage of every aspect of diagnostic radiology, Grainger and Allison 's Diagnostic Radiology Essentials, 2nd Edition, is an ideal review and reference for radiologists in training and in practice. This comprehensive overview of fundamental information in the field prepares you for exams and answers the practical questions you encounter every day. In a single, convenient volume, this one-stop resource is derived from, and cross-referenced to, the renowned authoritative reference work Grainger & Allison 's Diagnostic Radiology, 6th Edition. Concentrates on the subjects

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that general diagnostic radiologists need to know, covering all diagnostic imaging modalities and organized by organ and system. Uses a concise, highly templated, bulleted format that helps you find the answers you need quickly and easily. Features more than 2,000 high-quality images, including plain film, CT, MRI, and ultrasound. Features a new section on interventional radiology that covers interventional vascular radiology techniques, cross sectional angiography, specific drainage techniques, tumor ablation principles, and intervention in hepatobiliary, genitourinary and gynecological conditions. Contains a new section on functional imaging which includes both MRI (diffusion weighted imaging and perfusion MRI) and PETCT. Includes diagnostic "pearls" that help

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you avoid pitfalls and errors in diagnosis. Includes a useful Appendix with many quick-reference items that are hard to remember but essential in day-to-day practice. New content includes intravascular contrast media, anticoagulation agents and sedation, the latest TNM 8th edition of staging cancers, and new section on PI-RADS and BI-RADS.

Essentials of Dental Radiography and Radiology E-Book

Essentials of Nuclear Medicine and Molecular Imaging E-Book

Radiography, Ultrasound, CT and MRI in Neonates and Children

Diagnostic Ultrasound

Breast Imaging Essentials

Musculoskeletal Imaging: The Essentials

For all radiologists

diagnosing infants and

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children, knowledge of best practices in pediatric imaging is essential to safely obtaining high-quality images and achieving accurate diagnoses. This practical text covers current guidelines and key topics in the field, including choice of modality, equipment and dosages, child-specific diseases, typical imaging findings, differential diagnostic aspects, and safety factors. This book is invaluable for all clinicians and radiologists who diagnose

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and manage this sensitive population. Special Features: Explores the use of all standard imaging modalities in children as compared to adults, especially with regard to ultrasound, CT, and MRI Supplies more than 600 high-quality images to help in interpreting findings, including imaging of suspected child abuse Shows how to adapt examination protocols and equipment requirements for the specialized needs of pediatric patients Describes important safety protection measures in

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children utilizing the ALARA principle of radiation exposure (As Low As Reasonably Achievable) Summarizes a wide array of pediatric diseases and disorders in a concise, checklist format, including clinical features, imaging findings, differential diagnosis, associated syndromes, and treatment recommendations Includes lists of indications, summary tables, imaging protocols, case studies, and quiz questions to test your knowledge This book provides a fundamental

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understanding of imaging in infants and children and is an ideal, practice-oriented reference for residents, fellows in pediatric radiology, and general radiologists. It is also written for pediatricians, pediatric surgeons, and other interested doctors and specialists who want to know more about imaging specifics in the pediatric age group.

Now in its third edition, *Anatomy in Diagnostic Imaging* is an unrivalled atlas of anatomy applied to diagnostic imaging. The



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book covers the entire human body and employs all the imaging modalities used in clinical practice; x-ray, CT, MR, PET, ultrasound and scintigraphy. An introductory chapter explains succinctly the essentials of the imaging and examination techniques drawing on the latest technical developments. In view of the great strides that have been made in this area recently, all chapters have been thoroughly revised in this third edition. The book's original and didactically

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convincing presentation has been enhanced with over 250 new images. There are now more than 900 images, all carefully selected in order to be user-friendly and easy-to-read, due to their high quality and the comprehensive anatomical interpretation directly placed alongside every one. Both for medical students and practising doctors, *Anatomy in Diagnostic Imaging* will serve as the go-to all-round reference collection linking anatomy and modern diagnostic imaging. Winner

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of the Radiology category at the BMA Book Awards 2015

The book is an on-the-spot reference for residents and medical students seeking diagnostic radiology fast facts. Its question-and-answer format makes it a perfect quick-reference for personal review and studying for board examinations and re-certification. Readers can read the text from cover to cover to gain a general foundation of knowledge that can be built upon through practice or can use choice chapters to

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review a specific subspecialty before starting a new rotation or joining a new service. With hundreds of high-yield questions and answer items, this resource addresses both general and subspecialty topics and provides accurate, on-the-spot answers. Sections are organized by subspecialty and body area, including chest, abdomen, and trauma, and chapters cover the anatomy, pathophysiology, differential diagnosis, hallmark signs, and image features of major diseases

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and conditions. Key example images and illustrations enhance the text throughout and provide an ideal, pocket-sized resource for residents and medical students.

The first in a series of books designed to be pedagogical, the basic purpose is to give the radiologic technology student a list of facts, values or statements that are essential. Each book is a list of factual statements and illustrations which the students must know. For

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further explanation, the student is referred to appropriate textbooks identified in the appendix. Each chapter begins with a list of objectives, contain individual statements of fact, followed by suggestions for further reading, and end with sample questions of the type used by the ARRT. Topics covered in this volume include sources of ionizing radiation and their biological effects, patient radiation control, occupational radiation control, recommended

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radiation dose limits, and much more.

Essentials of Dental  
Radiography and Radiology  
E-Book

Grainger & Allison's  
Diagnostic Radiology  
Essentials E-Book

Medical Imaging

Musculoskeletal Imaging:

The Requisites E-Book

Patient Positioning

Maximize your interpretative skills in breast imaging with this clinically oriented resource. Ideal for residents in radiology, this image-rich text fosters the development of skills necessary to facilitate and maximize interpretive skills in all aspects

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of breast imaging from mammographyultrasound, and MRI to imaging-guided procedures. This title will also help readers learn how to incorporate clinical and imaging findings to pathology during diagnosis and patient management.

Ideal for radiology residents and medical students, as well as anyone who reads or orders radiology imaging studies, this user-friendly reference covers the basics of how to approach, read, and interpret radiological images. Using concise, step-by-step explanations and an enjoyable writing style, expert radiologist Dr. Fred A Mettler, Jr.,



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walks you through a sequential thought process for all common indications for radiologic studies and their interpretation.

Featuring thorough updates from cover to cover, this resource covers the fundamental information you need to know, as well as recent advances in the field. Covers which modalities to use for common suspected problems, the benefits and limitations of each modality, potential complications, clinical findings, and interpretation tips to facilitate decision-making and treatment. Includes normal images and common variants in primary care practice and life-threatening abnormalities for

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quick identification and referral – all highlighted with over 1,000 radiographic images, many in comparative panels of normal, abnormal, or correlative findings. Features new information throughout: more than 100 new American College of Radiology Appropriateness Criteria variants, digital breast tomosynthesis (DBT), PET/CT, new screening guidelines for colon, breast, prostate and lung cancer, new quality and safety standards, and patient and inter-professional communication. Incorporates today's greater use of intermediate and advanced imaging technology, including CT, MR, and PET/CT, in addition

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to an emphasis on the most often-used imaging modalities such as ultrasound and plain film. Addresses core content of human anatomy and function/dysfunction as it relates to modern imaging. Features comprehensive tables of imaging indications for common problems across all body systems for quick reference. Embodying the principle of 'everything you need but still easy to read', this fully updated edition of Core Radiology is an indispensable aid for learning the fundamentals of radiology and preparing for the American Board of Radiology Core exam. Containing over 2,100 clinical

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radiological images with full explanatory captions and color-coded annotations, streamlined formatting ensures readers can follow discussion points effortlessly. Bullet pointed text concentrates on essential concepts, with text boxes, tables and over 400 color illustrations supporting readers' understanding of complex anatomic topics. Real-world examples are presented for the readers, encompassing the vast majority of entities likely encountered in board exams and clinical practice. Divided into two volumes, this edition is more manageable whilst remaining comprehensive in its coverage of

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topics, including expanded pediatric cardiac surgery descriptions, updated brain tumor classifications, and non-invasive vascular imaging. Highly accessible and informative, this is the go-to introductory textbook for radiology residents worldwide. Breast Imaging Review: A Quick Guide to Essential Diagnoses serves as a quick review of essential radiology findings for interpreting multimodality images of the breast. The book includes 92 easy-to-read cases presenting common diagnoses, with over 360 high-quality figures encompassing mammography, ultrasound, MRI, and PET

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images. Also included are concise pearls covering the basics of interventional breast procedures, such as MRI-guided breast biopsy, galactography, and ultrasound-guided cyst aspirations, along with high yield facts vital to the practice of breast imaging. Co-authored by Drs. Biren A. Shah, Gina M. Fundaro, and Sabala Mandava, this book successfully integrates a comprehensive array of images, diagnoses, and discussion points into a quickly reviewable format. Breast Imaging Review is a valuable resource for radiology residents preparing to take the oral boards, as well as fellows and practicing

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radiologists interested in reviewing the basics of breast imaging interpretation and interventional procedures.

Breast Imaging Review

A Multimodality Approach

Essentials for Physicians

Core Radiology

Common Indications and

Interpretation

***The Essential Physics of Medical Imaging***  
**Lippincott Williams & Wilkins**

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*to use during rotations, or as a quick review for practicing radiologists and fellows, Musculoskeletal Imaging: The Essentials is a complete, concise overview of the most important knowledge in this complex field. Each chapter begins with learning objectives and ends with board-style questions that help you focus your learning. A self-assessment examination at the end of the book tests your mastery of the content and prepares you for exams. Written in an engaging, easy-to-read style, Clinical Radiology covers the topics most often included in introductory radiology courses and*



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***emphasizes clinical problem solving. The text offers guidelines for selecting imaging studies in specific clinical situations and takes a systematic approach to imaging interpretation, presenting a review of normal anatomy, technical and pathologic considerations, and diagnostic advice. The Fourth Edition includes: -NEW! Full-color design and illustrations -50 new images, updated to reflect the latest technology -Expanded coverage of neurotoxicity and radiation exposure -Additional "Diagnostic Pearls" included in every chapter***  
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***to the essentials of radiology is designed to enable readers to excel at ordering the appropriate examination and reliably interpreting basic imaging findings. Organized around the major organ systems, it situates imaging within the larger context of the patient's clinical presentation, the pathophysiology of the disease or injury, the analysis and differential diagnosis of imaging findings, and the integration of each into patient management. Special features include: Concise reviews of key anatomic and physiologic principles Full integration of pathophysiology and imaging findings More than***

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**Case Based Review**  
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*radiology with Quality and Safety in Medical Imaging: The Essentials! Ideal as an efficient learning tool for residents as well as a quick refresher for experienced radiologists, this practical reference covers every essential feature of this important field, putting indispensable information at your fingertips in a compact, high-yield format. You'll be brought up to date on radiation dose and safety, patient satisfaction, monitoring and reporting of complications, quality and safety in breast imaging, evidence-based radiology,*

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*quality dashboards, quality and safety in nuclear medicine, and much more. Covering both the fundamentals and recent developments in this fast-changing field, Essentials of Nuclear Medicine and Molecular Imaging, 7th Edition, is a must-have resource for radiology residents, nuclear medicine residents and fellows, nuclear medicine specialists, and nuclear medicine technicians. Known for its clear and easily understood writing style, superb illustrations, and self-assessment features, this updated classic is an ideal*

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*system, as well as inflammation, infection and tumor imaging; pearls and pitfalls for every chapter; and pediatric doses and guidelines in compliance with the Image Gently and Image Wisely programs. Features a separate self-assessment section on differential diagnoses, imaging procedures and artifacts, and safety issues with unknown cases, questions, answers, and explanations. Includes new images and illustrations, for a total of 430 high-quality, multi-modality examples throughout the text. Reflects recent advances in the field, including updated nuclear medicine*

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*including updated comprehensive imaging protocols for routine and hybrid imaging, pregnancy and breastfeeding guidelines, pediatric dosages, non-radioactive pharmaceuticals used in interventional and cardiac stress imaging, and radioactivity conversion tables. While there are many excellent texts focused on clinical medical imaging, there are few books that approach in vivo imaging technologies from the perspective of a scientist or physician-scientist using, or interested in using, these techniques in research. It is for these individuals that*

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