

## Mammographic Imaging

Digital Mammography  
 Improving Breast Imaging Quality Standards  
 Digital Mammography  
 Mammography for Radiologic Technologists  
 2013 ACR BI-RADS Atlas  
 Making the Diagnosis: A Practical Guide to Breast Imaging E-Book  
 Breast Imaging  
 Mammographic Image Analysis  
 Radiological Diagnosis of Breast Diseases  
 Breast Imaging  
 Digital Mammography  
 Breast Imaging: Case Review Series E-Book  
 Breast Imaging: The Requisites E-Book  
 Breast Diseases  
 The Breast Test Book  
 Digital Mammography  
 Holland-Frei Cancer Medicine  
 Mammography and Breast Imaging PREP: Program Review and Exam Prep  
 Breast Imaging, An Issue of Radiologic Clinics of North America, E-Book  
 Breast Tomosynthesis E-Book  
 Clinical Breast Imaging  
 Mammography and Beyond  
 Digital Breast Tomosynthesis  
 Atlas of Breast Imaging  
 Mammography and Breast Imaging: Just The Facts  
 Mammographic Imaging  
 Diseases of the Chest, Breast, Heart and Vessels 2019-2022  
 Breast Imaging and Pathologic Correlations  
 Recent Advances in Breast Imaging, Mammography, and Computer-aided Diagnosis of Breast Cancer  
 Saving Women's Lives  
 Diagnostic Breast Imaging  
 NCRP Report  
 Breast Imaging: The Requisites E-Book  
 Physics of Mammographic Imaging  
 Atlas of Mammography  
 Mammographic Imaging  
 Mammographic Image Analysis  
 Breast Imaging  
 Contrast-Enhanced Mammography  
 Fundamentals of Mammography - E-Book

*Mammographic Imaging*

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### **GWENDOLYN LANE**

**Digital Mammography** Elsevier Health Sciences

This book is a comprehensive guide to contrast-enhanced mammography (CEM), a novel advanced mammography technique using dual-energy mammography in combination with intravenous contrast administration in order to increase the diagnostic performance of digital mammography. Readers will find helpful information on the principles of CEM and indications for the technique. Detailed attention is devoted to image interpretation, with presentation of case examples and highlighting of pitfalls and artifacts. Other topics to be addressed include the establishment of a CEM program, the comparative merits of CEM and MRI, and the roles of CEM in screening populations and monitoring of response to neoadjuvant chemotherapy. CEM became commercially available in 2011 and is increasingly being used in clinical practice owing to its superiority over full-field digital mammography. This book will be an ideal source of knowledge and guidance for all who wish to start using the technique or to learn more about it.

*Improving Breast Imaging Quality Standards* CCH

Effectively prepare for certification, recertification, and practice with *Breast Imaging: Case Review*, 2nd Edition! Case studies illustrate how to make

confident, final diagnoses through accurate pattern recognition, clinical correlation, and differential diagnosis. It's an ideal way to test and deepen your knowledge of all essential topics in breast imaging. - Consult this title on your favorite e-reader with intuitive search tools and adjustable font sizes. Elsevier eBooks provide instant portable access to your entire library, no matter what device you're using or where you're located. - Prepare for the new Board exam format with an updated organization that provides 4-5 multiple-choice review questions for each case. - Review 200 cases organized by level of difficulty, with multiple-choice questions, answers, and rationales that mimic the new format of certification and recertification exams. - Stay current with the aid of updated cases covering breast MR imaging, digital breast imaging, image-guided biopsy, imaging of high-risk lesions (ADH, LCIS), high-risk patient management, invasive lobular carcinoma, complex cystic cancer, male breast cancer, mucinous carcinoma, MRI of DCIS, desmoid tumors, and much more. - See examples of the latest imaging approaches, including digital mammography, MRI, and color Doppler US.

**Digital Mammography** Elsevier Health Sciences

This book provides a comprehensive description of the screening and clinical applications of digital breast tomosynthesis (DBT) and offers straightforward, clear guidance on use of the technique. Informative clinical cases are presented to illustrate how to take advantage of DBT in clinical practice. The importance of DBT as a diagnostic tool for both screening and diagnosis is increasing rapidly. DBT improves upon mammography by depicting breast tissue on a video clip made of cross-sectional images reconstructed in correspondence with their mammographic planes of

acquisition. DBT results in markedly reduced summation of overlapping breast tissue and offers the potential to improve mammographic breast cancer surveillance and diagnosis. This book will be an excellent practical teaching guide for beginners and a useful reference for more experienced radiologists.

**Mammography for Radiologic Technologists** Lippincott Williams & Wilkins

It is challenging enough to be able to make a diagnosis in mammography, but the newer standards of care demand more than just providing a diagnosis. This book is an excellent resource to improve the understanding of breast diseases, recognize and manage problems encountered in breast imaging and clinical management of the breast diseases. With forty four chapters, this volume is divided into six sections on screening of breast cancer, imaging modalities, benign breast disorders, interventional procedures, pathological considerations and breast cancer. *Breast Diseases: Imaging and Clinical Management* is a crisp volume on clinical and multimodality breast imaging with emphasis on interventional procedures, pathology and the entire spectrum of breast cancers.

**2013 ACR BI-RADS Atlas** Elsevier Health Sciences

The use of tomosynthesis in breast imaging is growing rapidly due to its superior ability to identify and characterize normal findings, benign lesions, and breast cancer, as well as its optimal performance with dense breast tissue. Providing unparalleled coverage of this breakthrough breast imaging modality, *Breast Tomosynthesis* explains how this new modality can lead to enhanced interpretation and better patient outcomes. This new reference is an indispensable guide for today's practitioner looking to keep abreast of the latest developments with correlative findings, practical interpretation tips, physics, and information on how tomosynthesis differs from conventional 2D FFDM mammography. Over 900 high-quality images offer visual guidance to effectively reading and interpreting this key imaging modality. - Includes over 900 high-quality tomosynthesis and mammography images representing the spectrum of breast imaging. - Features the latest Breast Imaging Reporting and Data System (or BI-RADS) standards updated in February 2014. - Highlights practical tips to interpreting this new modality and how it differs from 2D mammography. - Details how integration of tomosynthesis drastically changes lesion work-up and overall workflow in the department. - "Tomo Tips" boxes offer tips and pitfalls for expert clinical guidance.

**Making the Diagnosis: A Practical Guide to Breast Imaging E-Book** Thieme

An authoritative and comprehensive overview of all aspects of the diagnosis of breast diseases. Employing an integrated approach, all modern imaging modalities are described and their clinical usefulness critically validated, forming an aid for the clinician in the selection and evaluation of the various imaging methods in specific settings. Due attention is given to new aspects of interpretation of mammographic signs that are of particular interest for primary breast cancer diagnosis. The book also includes detailed information on the evaluation of the postoperative breast and on breast cancer screening by mammography.

**Breast Imaging** Springer Science & Business Media

This open access book focuses on diagnostic and interventional imaging of the chest, breast, heart, and vessels. It consists of a remarkable collection of contributions authored by internationally respected experts, featuring the most recent diagnostic developments and technological advances with a highly didactical approach. The chapters are disease-oriented and cover all the relevant imaging modalities, including standard radiography, CT, nuclear medicine with PET, ultrasound and magnetic resonance imaging, as well as imaging-guided interventions. As such, it presents a comprehensive review of current knowledge on imaging of the heart and chest, as well as thoracic interventions and a selection of "hot topics". The book is intended for radiologists, however, it is also of interest to clinicians in oncology, cardiology, and pulmonology.

**Mammographic Image Analysis** McGraw Hill Professional

Written by experts in the field and providing the latest in quality assurance and clinical the second edition helps the reader develop the skills needed to perform quality mammography--the critical first step to successful diagnosis, treatment, and prevention of breast cancer. Topics covered include basic physics, the history of mammography, techniques of film-screen mammography, quality assurance, position, basic troubleshooting, and much more. A MUST for anyone preparing for the mammography registry exam.

**Radiological Diagnosis of Breast Diseases** Lippincott Williams & Wilkins

*Breast Imaging* presents a comprehensive review of the subject matter commonly encountered by practicing radiologists and radiology residents in training. This volume includes succinct overviews of breast cancer epidemiology, screening, staging, and treatment; overviews of all imaging modalities including mammography, tomosynthesis, ultrasound, and MRI; step-by-step approaches for image-guided breast interventions; and high-yield chapters organized by specific imaging finding seen on mammography, tomosynthesis, ultrasound, and MRI. Part of the Rotations in Radiology series, this book offers a guided approach to breast imaging interpretation and techniques, highlighting the nuances necessary to arrive at the best diagnosis and management. Each chapter contains a targeted discussion of an imaging finding which reviews the anatomy and physiology, distinguishing features, imaging techniques, differential diagnosis, clinical issues, key points, and further reading. *Breast Imaging* is a must-read for residents and practicing radiologists seeking a foundation for the essential knowledge base in breast imaging.

**Breast Imaging** Springer

Breast cancer is the most common type of cancer found in women worldwide; approximately 10 per cent of women are confronted with breast cancer in their lives. Breast cancer can be most efficiently treated if detected at an early stage. This book focuses primarily on the application of computer vision for early lesion identification in mammograms and breast-imaging volumes through computer-aided diagnostics (CAD). Colour illustrations are included in the text, and an accompanying CD-ROM contains other full-colour images.

**Digital Mammography** Elsevier Health Sciences

This issue of *Radiologic Clinics of North America* focuses on Breast Imaging and is edited by Dr. Phoebe E. Freer. Articles will include: Management of High-risk Lesions in Breast Cancer; Contrast Mammography and Tomosynthesis; Breast Radiology Advocacy: Responding to the Call-to-Action; Artificial Intelligence and Breast Imaging; Is It the Era for Personalized Breast Cancer Screening?; Understanding the Mammography Audit; MRI Screening of Breast Cancer; Abbreviated MRI for Breast Cancer; Overdiagnosis and Risks of Breast Cancer Screening; MRI Audit of Screening and

Diagnostic Breast Imaging; Supplemental Screening for Breast Cancer in Patients at Intermediate and High Risk; and more!

**Breast Imaging: Case Review Series E-Book** Lippincott Williams & Wilkins

Dr. Kopans' best-selling text and reference on breast imaging is now in its thoroughly revised, updated Third Edition. The author combines a complete, superbly illustrated atlas of imaging findings with a comprehensive text that covers all imaging modalities and addresses all aspects of breast imaging--including breast anatomy, histology, physiology, pathology, breast cancer staging, and preoperative localization of occult lesions. This edition includes state-of-the-art information on a new modality, breast tomosynthesis, as well as on digital mammography, MRI, ultrasound, and percutaneous breast biopsy. The book contains more than 1,500 images obtained with the latest technology, including many new mammograms and scans using other imaging modalities. FEATURES: - Information on anatomy, histology, physiology, pathology, breast cancer staging, and preoperative localization of occult lesions - Discusses breast disease from a wider viewpoint than just how to perform and interpret mammography NEW TO THIS EDITION: - Digital mammography - Major revisions in the MRI, ultrasound, and interventional sections - Updated figures included in this edition - Updated information on MR, US, and percutaneous breast biopsy

**Breast Imaging: The Requisites E-Book** Elsevier Health Sciences

Breast cancer is a major health problem in the Western world, where it is the most common cancer among women. Approximately 1 in 12 women will develop breast cancer during the course of their lives. Over the past twenty years there have been a series of major advances in the management of women with breast cancer, ranging from novel chemotherapy and radiotherapy treatments to conservative surgery. The next twenty years are likely to see computerized image analysis playing an increasingly important role in patient management. As applications of image analysis go, medical applications are tough in general, and breast cancer image analysis is one of the toughest. There are many reasons for this: highly variable and irregular shapes of the objects of interest, changing imaging conditions, and the densely textured nature of the images. Add to this the increasing need for quantitative information, precision, and reliability (very few false positives), and the image processing challenge becomes quite daunting, in fact it pushes image analysis techniques right to their limits.

**Breast Diseases** Lippincott Williams & Wilkins

Each year more than 180,000 new cases of breast cancer are diagnosed in women in the U.S. If cancer is detected when small and local, treatment options are less dangerous, intrusive, and costly-and more likely to lead to a cure. Yet those simple facts belie the complexity of developing and disseminating acceptable techniques for breast cancer diagnosis. Even the most exciting new technologies remain clouded with uncertainty. *Mammography and Beyond* provides a comprehensive and up-to-date perspective on the state of breast cancer screening and diagnosis and recommends steps for developing the most reliable breast cancer detection methods possible. This book reviews the dramatic expansion of breast cancer awareness and screening, examining the capabilities and limitations of current and emerging technologies for breast cancer detection and their effectiveness at actually reducing deaths. The committee discusses issues including national policy toward breast cancer detection, roles of public and private agencies, problems in determining the success of a technique, availability of detection methods to specific populations of women, women's experience during the detection process, cost-benefit analyses, and more. Examining current practices and specifying research and other needs, *Mammography and Beyond* will be an indispensable resource to policy makers, public health officials, medical practitioners, researchers, women's health advocates, and concerned women and their families.

**The Breast Test Book** McGraw Hill Professional

A comprehensive review for the mammography registry examination - from an experienced educator and clinician who knows exactly what it takes to pass Includes new coverage of the latest digital imaging technologies Written by an instructor and mammography specialist at Stamford Hospital Concise narrative text helps you to focus on essential concepts Practice questions with answers referenced to the text allow you to gauge your comprehension of important material Learning aids such as objectives and glossaries at the beginning of each chapter streamline the learning process Numerous radiographs teach you to recognize good and bad films and normal circumscribed lesions and breast calcifications High-quality diagrams help you learn correct patient positioning consistent with the American College of Radiography and the Mammography Quality Control Manual Valuable during coursework to help you recognize and understand concepts that are likely to appear on the exam A complete review for licensure that includes the history of breast imaging, breast cancer detection, and treatment (including new imaging methods and recent advances in digital mammography, MRI, BSGI, DBT, volumetric ultrasound imaging, and Cone Beam Breast CT)

**Digital Mammography** Oxford University Press

Featuring over 1,500 mammographic images, this atlas is a comprehensive guide to interpreting mammograms. It presents the full spectrum of manifestations of breast diseases, as well as cases involving the postsurgical and augmented breast. Chapters are organized according to the pattern seen on the mammogram to develop readers' pattern recognition skills and to allow quick and complete definition of etiologies and clinical implications for a particular finding. This edition includes new chapters on the augmented breast, the role of ultrasound and MRI in breast imaging, and imaging-guided breast interventions. The terminology of the BI-RADS® lexicon is used throughout.

**Holland-Frei Cancer Medicine** CRC Press

This atlas is an excellent visual aid to interpreting breast imaging findings and a valuable complement to *Breast Imaging, Second Edition*. The atlas contains 489 images depicting the various mammographic, ultrasonographic, and MRI findings encountered in clinical practice. Over 250 legends highlight key teaching points. The opening section presents screening cases. Subsequent sections are organized according to the categories defined in the American College of Radiology Breast Imaging Reporting and Data System (BIRADS(R)).

**Mammography and Breast Imaging PREP: Program Review and Exam Prep** John Wiley & Sons

*Breast Imaging: The Requisites, 2nd Edition*, by Debra Ikeda, MD, presents all of today's core knowledge about diagnostic imaging of the breast. Clinically oriented and easy to use, it shows you how to interpret the full range of imaging studies for the most accurate diagnoses. Updates include all-new digital mammography images throughout...new, full-color chapters on PET-CT imaging for high-risk patients and patients with breast disease...new images and data on MR imaging...and new ultrasound images, with an emphasis on ultrasound of normal structures. Compact yet

authoritative, this work is an ideal reference for both board preparation and clinical practice. Focus on the essentials needed to pass the boards and ensure accurate diagnoses in clinical practice. Interpret the findings generated from each high-tech imaging modality used to image the breast, including digital mammography, MRI and MRI-guided procedures, ultrasound, and PET-CT imaging. Get outstanding visual guidance with more than 700 superb illustrations that demonstrate a full range of mammography approaches and findings. Grasp key information quickly with numerous outlines, tables, "pearls," and boxed material for easy reference. Benefit from expert coverage of risk factors, image interpretation and workup, breast masses and calcifications, cancer and its treatment, silicone breast implants, the postoperative breast, clinical problems, invasive procedures, and much more. Stay up to date with all-new digital mammography images throughout...new, full-color chapters on PET-CT imaging for high-risk patients and patients with breast disease...new images and data on MR imaging...and new ultrasound images, with an emphasis on ultrasound of normal structures. Gain new insight into today's hottest topics, including breast MR imaging for high-risk patients, staging, and treatment planning, and PET-CT imaging for diagnosis, staging, and treatment planning.

*Breast Imaging, An Issue of Radiologic Clinics of North America, E-Book* Lippincott Williams & Wilkins

Digital Radiography has been firmly established in diagnostic radiology during the last decade. Because of the special requirements of high contrast

and spatial resolution needed for roentgen mammography, it took some more time to develop digital mammography as a routine radiological tool. Recent technological progress in detector and screen design as well as increased experience with computer applications for image processing have now enabled Digital Mammography to become a mature modality that opens new perspectives for the diagnosis of breast diseases. The editors of this timely new volume Prof. Dr. U. Bick and Dr. F. Diekmann, both well-known international leaders in breast imaging, have for many years been very active in the frontiers of theoretical and translational clinical research, needed to bring digital mammography firmly into the sphere of daily clinical radiology. I am very much indebted to the editors as well as to the other internationally recognized experts in the field for their outstanding state of the art contributions to this volume. It is indeed an excellent handbook that covers in depth all aspects of Digital Mammography and thus further enriches our book series Medical Radiology. The highly informative text as well as the numerous well-chosen superb illustrations will enable certified radiologists as well as radiologists in training to deepen their knowledge in modern breast imaging.

**Breast Tomosynthesis E-Book** McGraw-Hill Professional Publishing

The perfect review tool for radiologic technologists certifying or recertifying. Following the guidelines specified by the American Registry of Radiologic Technologist (AART) Exam, the book includes all breast imaging modalities and techniques as well as questions for self-assessment.

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