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## **Diagnostic Imaging Oncology**

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As outlined by Dr. V. Donoghue in her preface, recent advances in the therapeutic management of neonates with low gestational age have resulted in a significantly higher survival rate and better outcome for these newborns. Lung and heart malformations or acquired diseases represent a major part of the life threatening conditions in this group of critically ill patients, and radiological imaging is one of the main tools to define the appropriate therapeutic approach. This book not only provides an excellent update on the embryological and anatomical aspects of neonatal chest conditions but also offers a unique and comprehensive overview of our current knowledge and of recent progress in imaging techniques of the neonatal chest. Dr. Donoghue has been successful in engaging a number of outstandingly qualified international experts to contribute to this work, and I would like to congratulate her on the excellent coordination and editing of this book. I am confident that this outstanding volume will meet with great interest not only from general as well as specialised paediatric radiologists but also from neonatologists and paediatricians. I hope it will enjoy the same success as many previous volumes in this series.

Leuven ALBERT 1. BAERT Preface In the past two decades there have been extraordinary advances in the treatment of critically ill neonates, resulting in improvements in their survival and a significant decrease in morbidity. Infants of very low gestational ages are now surviving. This book provides clinicians with a broader understanding of screening and preventive diagnosis using radiological

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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.

A practical manual covering the full spectrum of PET and PET/CT imaging, now in common clinical practice, this book includes images of normal variants, artifacts, and pathologic conditions. Indications for and the relative clinical value of PET in the armamentarium of diagnostic medical imaging are reviewed. The information in the book is organized to be brief, concise, easy-to-understand and readily accessed. This book is intended for all health practitioners who need a concise reference and review of PET imaging indications, protocols and clinical applications. It will be useful to radiologists, nuclear medicine physicians, and clinicians who refer their patients to PET Centers for diagnostic imaging, including neurologists, neurosurgeons, psychiatrists, cardiologists, internists, and oncologists. Radiologic and nuclear medicine technologists, and physicians in training will also benefit from this work.

With molecular imaging becoming one the fastest growing topics in medical schools, Informa Healthcare presents Molecular Imaging in Oncology, the first comprehensive reference on molecular imaging in oncology. Giving clinicians and researchers a greater understanding of the current field, this text covers: instrumentation and techniques cancer imaging

Interventional radiology plays an increasingly significant role in the clinical management of patients with cancer, replacing more invasive traditional methods and making it possible to deal with previously untreatable conditions. This state-of-the-art book describes the techniques currently used by

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Interventional radiologists in the treatment and palliation of a variety of malignant conditions. Throughout, the emphasis is on practical issues. Every chapter has been written by a world expert in the topic concerned. This book will serve as an authoritative source of information and will be invaluable to those using interventional radiological techniques in the treatment of patients with malignant disease.

In recent years there has been recognition of the central role of imaging in the management of patients with cancer. The third edition of this widely acclaimed book builds on the foundations laid down by the first edition, the 1998 winner of the Royal Society's award for the Multi-author Textbook of the Year, and the second (2004). The core of the *The Atlas of PET/CT Imaging in Oncology* serves an educational purpose and is designed to teach radiologists and nuclear medicine specialists about important aspects of molecular imaging and nuclear medicine specialists about the benefits of anatomic imaging. It consists of a brief didactic portion and an extensive selection of interesting and challenging case examples. A special feature of the atlas is an interactive CD-ROM that provides the original PET and CT images of each case in selected planes enabling the users to manually adjust the blending intensity of each modality in a fused image. In addition, users can display the clinical history, imaging techniques and diagnostic findings of each case as well as the corresponding specific teaching point.

Propelling quantitative MRI techniques from bench to bedside, *Quantitative MRI in Cancer* presents a range of quantitative MRI methods for assessing tumor biology. It includes biophysical and theoretical explanations of the most relevant MRI techniques as well as examples of these techniques in cancer applications. The introductory part of the book covers basic cancer biology, theoretical aspects of NMR/MRI physics, and the hardware required to form MR

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images. Forming the core of the book, the next three parts illustrate how to characterize tissue properties with endogenous and exogenous contrast mechanisms and discuss common image processing techniques relevant for cancer. The final part explores emerging areas of MR cancer characterization, including radiation therapy planning, cellular and molecular imaging, pH imaging, and hyperpolarized MR. Each of the post-introductory chapters describes the salient qualitative and quantitative aspects of the techniques before proceeding to preclinical and clinical applications. Each chapter also contains references for further study. Leading the way toward more personalized medicine, this text brings together existing and emerging quantitative MRI techniques for assessing cancer. It provides a self-contained overview of the theoretical and experimental essentials and state of the art in cancer MRI.

While many textbooks discuss diagnostic imaging and/or the management of cancer, *Radiation Oncology: Imaging and Treatment* is the first imaging book devoted to the advanced use of all imaging modalities in radiation oncology; including CT, PET/CT, MR, SPECT, 4D, ultrasound, and planar radiography). Also included are images of possible radiotherapy complications. Published by Amirsys, a global leader in medical knowledge, this one-of-a-kind title incorporate pearls related to planning external beam, SRS, SBRT, IGRT, LDR and HDR brachytherapy. Essential to the practicing and training radiation oncologist is a section dedicated to representative pathology, including the tumors most common for specific sites as well as a section devoted to radiotherapy didactic information, which includes appropriate dosages, fractionation schemes, local control rates, overall survival, and more. This handsome volume equips radiation oncologists with the most essential knowledge for their field. **FEATURES:** · Detailed imaging

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Information on the presentation of cancers, with an emphasis on cross-sectional imaging · Treatment planning guidelines (with isodose information for representative cases) · Clinical overviews for treating oncologists · Up-to-date 7th edition AJCC staging tables · Features the classic benefits of all Amirsys® titles, including time-saving bulleted text, Key Facts in each chapter, stunning annotated images, and an extensive index · Amirsys eBook Advantage(tm), an online version of the print book with hundreds of additional images, larger images, and fully searchable text

Dynamic contrast-enhanced MRI is now established as the methodology of choice for the assessment of tumor microcirculation in vivo. The method assists clinical practitioners in the management of patients with solid tumors and is finding prominence in the assessment of tumor treatments, including anti-angiogenics, chemotherapy, and radiotherapy. Here, leading authorities discuss the principles of the methods, their practical implementation, and their application to specific tumor types. The text is an invaluable single-volume reference that covers all the latest developments in contrast-enhanced oncological MRI.

Here's the multidisciplinary guidance you need for optimal imaging of malignancies. Radiologists, surgeons, medical oncologists, and radiation oncologists offer state-of-the-art guidelines for diagnosis, staging, and surveillance, equipping all members of the cancer team to make the best possible use of today's noninvasive diagnostic tools. Consult with the best. Dr. Paul M. Silverman and more than 100 other experts from MD Anderson Cancer Center provide you with today's most dependable answers on every aspect of the diagnosis, treatment, and management of the cancer patient. Recognize the characteristic presentation of each cancer via current imaging modalities and understand the clinical implications of your findings. Effectively use traditional imaging modalities

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such as Multidetector CT (MDCT), PET/CT, and MR in conjunction with the latest advances in molecular oncology and targeted therapies. Find information quickly and easily thanks to a consistent, highly templated format complete with "Key Point" summaries, algorithms, drawings, and full-color staging diagrams. Make confident decisions with guidance from comprehensive algorithms for better staging and imaging evaluation. Access the fully searchable text online, along with high-quality downloadable images for use in teaching and lecturing and online-only algorithms, at [expertconsult.com](http://expertconsult.com).

A tactical guide for radiologists and nuclear medicine physicians, *Diagnostic Imaging: Nuclear Medicine, Second Edition* is practical, easy-to-use, and in-touch with the realities of multimodality diagnostic imaging. This comprehensive yet accessible reference addresses the most appropriate nuclear medicine options available to answer specific clinical questions within the framework of all imaging modalities. Sweeping updates include a complete reorganization, new differential diagnoses based on findings, and new chapters on physics and Nuclear Regulatory Commission guidelines. User-friendly bulleted text and a uniform chapter layout allow fast and effortless access to the crucial knowledge you need! Time-saving reference features include bulleted text, a variety of test data tables, key facts in each chapter, 2,000 full-color annotated images, and an extensive index Expanded coverage of the most important topics and trends in nuclear medicine including Recently revised radioactive iodine therapy guidelines for hyperthyroidism and thyroid cancer New bone tumor therapy radium-223 (currently indicated for treatment of painful bone metastases in prostate cancer) New I-123 ioflupane dopamine transporter imaging for diagnosis of parkinsonian syndromes F-18 PET/CT bone scan (particularly its indication for nonaccidental trauma in children) Meticulous

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updates throughout reflect the latest advances as well as all study guide topics listed for the new American Board of Radiology exam, including physics and Nuclear Regulatory Commission guidelines

Evidence-Based Imaging presents the radiologist with a user-friendly guide to the evidence-based science and the merit behind the diagnostic imaging studies performed in medicine. This book gives the reader a clinically relevant overview of epidemiology, selection of subjects for imaging, selection of imaging strategies, imaging test performance and cost, cost-effectiveness analysis, and applicability to children. Nine major areas of medical imaging are covered, with an emphasis on common diseases. These include Oncology, Neuroimaging, Gastroenterology, Pediatrics, Respiratory System, Musculoskeletal, Cardiovascular, Trauma, and Urologic. Radiologists, clinicians, residents, and others with an interest in medical imaging and a desire to keep current with the vast amount of evidence-based literature will find this text extremely useful.

This book is specifically designed to meet the needs of practicing radiologists by offering a practical, unified approach to PET-CT. It details how to effectively apply PET-CT in patient management. Written by radiologists who fully appreciate and understand both PET and CT, the book details an integrated understanding of PET-CT as a combined modality. Clinical topics include PET-CT of thoracic malignancies, melanoma, and breast cancer. In addition, the book reinforces fundamental concepts, such as the role of imaging diagnosis in disease management.

This pocket book is an up-to-date guide to the diagnostic imaging of head and neck cancers. The focus is particularly on FDG PET/CT, with coverage of the basic principles, clinical indications, typical and atypical appearances, normal variations and artifacts, advantages, limitations, and pitfalls.

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Consideration is also given to emerging roles for PET/CT in head and neck cancer, including radiotherapy planning and treatment response monitoring, and to radiotracers beyond FDG. In addition, succinct information is provided on clinical presentation, diagnosis, staging, pathology, management, and other diagnostic imaging techniques. A brief discourse on the practice of guideline adoption is included. The book is published within the Springer series Clinicians' Guides to Radionuclide Hybrid Imaging (compiled under the auspices of the British Nuclear Medicine Society) and will be an excellent asset for clinicians, nuclear medicine physicians, radiologists, radiographers, technologists, and nurses who work in the field of head and neck cancer.

This first dedicated overview for beam's eye view (BEV) covers instrumentation, methods, and clinical use of this exciting technology, which enables real-time anatomical imaging. It highlights how the information collected (e.g., the shape and size of the beam aperture and intensity of the beam) is used in the clinic for treatment verification, adaptive radiotherapy, and in-treatment interventions. The chapters cover detector construction and components, common imaging procedures, and state of the art applications. The reader will also be presented with emerging innovations, including target modifications, real-time tracking, reconstructing delivered dose, and in vivo portal dosimetry. Ross I. Berbeco, PhD, is a board-certified medical physicist and Associate Professor of Radiation Oncology at the Dana-Farber Cancer Institute, Brigham and Women's Hospital and Harvard Medical School.

This volume of the new series, "Medical Radiology" addresses the important topic of "Innovations in Diagnostic Radiology". It presents examples of current work of interest not only to the radiological community

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but to physicians in other medical disciplines and to scientists in general. The impact of radiology on diagnostic medicine and patient management has been obvious from the beginning of our specialty. However, the evolution of the field is expanding at an astounding rate. During the professional lifetime of one generation of radiologists alone, numerous technologies and procedures have been added to conventional radiography: cross sectional tomography, high resolution nuclear scanning, magnetic resonance imaging, ultrasound, interventional radiology and computer based radiological operations. The optimal interpretation of images obtained by these new technologies requires that we expand our knowledge in physiology, biochemistry and also in our clinical expertise. It also means that radiologists must collaborate closely with other clinicians and basic scientists.

The contemporary management of patients with cancers of the head and neck is under careful scrutiny and major changes are being introduced in order to improve the potential not only for long-term control but also for less in the way of disfiguring and distressing complications associated with the treatment programs. In 1988, the American Cancer Society estimates that there will be 42400 new cases of malignant tumors of the head and neck diagnosed with 12 850 deaths. In general, the prognosis for patients with malignant tumors of the head and neck region depends upon the site of origin, the local and regional extent of the tumor, the Karnofsky status of the patient as well as the patient's general medical condition. The potential for cure for early stage

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tumors is extremely high particularly for those lesions involving the vocal cord, oral cavity, and the anterior two-thirds of the tongue. Major advances have been made in the management of head and neck cancer by the innovative utilization of surgery with radiation therapy. Small tumors can be cured by either surgery or radiation therapy with equally good results. However, far advanced tumors are more complicated and more difficult to cure requiring combined, integrated, multimodal programs of management. Therefore, the previously general poor prognosis for advanced tumors is becoming better with more aggressive treatment regimens.

This book provides a comprehensive and up-to-date overview of the role of diagnostic and interventional radiology in respect of liver malignancies. Following background chapters on anatomy, epidemiology, and clinicopathologic features, each of the diagnostic imaging techniques is carefully appraised, focusing on new developments in equipment and contrast agents. The interventional therapeutic approaches to primary and secondary hepatic malignancies are then discussed in depth. The volume also covers special topics such as liver tumors in children and hepatic transplantation. This book, written by leading experts from throughout the world, will prove an indispensable source of information for clinicians and researchers involved in the diagnostic and therapeutic management of patients with liver malignancies.

This book, edited by leading experts in radiology, nuclear medicine, and radiation oncology, offers a wide-ranging,

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state of the art overview of the specifics and the benefits of a multidisciplinary approach to the use of imaging in image-guided radiation treatments for different tumor types. The entire spectrum of the most important cancers treated by radiation are covered, including CNS, head and neck, lung, breast, gastrointestinal, genitourinary, and gynecological tumors. The opening sections of the book address background issues and a range of important technical aspects. Detailed information is then provided on the use of different imaging techniques for T staging and target volume delineation, response assessment, and follow-up in various parts of the body. The focus of the book ensures that it will be of interest for a multidisciplinary forum of readers comprising radiation oncologists, nuclear medicine physicians, radiologists and other medical professionals.

With contributions by numerous experts

With cancer-related deaths projected to rise to 10.3 million people by 2020, the need to prevent, diagnose, and cure cancer is greater than ever. Cancer Imaging presents readers with the most up-to-date imaging instrumentation, general and diagnostic applications for various cancers, with an emphasis on lung and breast carcinomas--the two major worldwide malignancy types. This book discusses the various imaging techniques used to locate and diagnose tumors, including ultrasound, X-ray, color Doppler sonography, PET, CT, PET/CT, MRI, SPECT, diffusion tensor imaging, dynamic infrared imaging, and magnetic resonance spectroscopy. It also details strategies for imaging cancer, emphasizing the importance of the use of this technology for clinical

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diagnosis. Imaging techniques that predict the malignant potential of cancers, response to chemotherapy and other treatments, recurrence, and prognosis are also detailed. Concentrates on the application of imaging technology to the diagnosis and prognosis of lung and breast carcinomas, the two major worldwide malignancies Addresses the relationship between radiation dose and image quality Discusses the role of molecular imaging in identifying changes for the emergence and progression of cancer at the cellular and/or molecular levels

This succinct compendium focuses on the key practical aspects of head and neck cancer imaging. It also provides essential information on handling and analyzing imaging data. Head and neck cancer is the sixth most common cancer worldwide. CT and MRI imaging are absolutely crucial to accurate diagnosis and staging, and radiologists have to be especially familiar with the anatomy of that region of the body. In addition, they must be highly proficient in interpreting radiographic images in order to judge the patterns of metastasis, response to treatment, and the signs and patterns of recurrence. This concise but detailed book describes the latest imaging modalities for all types of head and neck cancer diagnosis in light of recent technological advances. Featuring abundant high-quality images supplemented by advice from experts on the management of each cancer, it is a valuable resource for diagnostic and general radiologists, as well as all medical staff involved in the management of head and neck cancers.

Ideal for trainees and practicing radiologists, Diagnostic

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Imaging: Gastrointestinal, 3rd Edition provides comprehensive coverage of every important topic in abdominal and gastrointestinal imaging. Featuring an increased number of illustrations, graphics, and multimodality imaging, this updated medical reference book will aid you in recognizing the characteristic and variant appearances of both common and uncommon abdominal disorders. User-friendly bulleted text and a uniform chapter layout allow fast and effortless access to the crucial knowledge you need! Expanded coverage of the most important topics and trends in fluoroscopic evaluation of the GI tract, including evaluation of patients before and after bariatric surgery, fundoplication, and surgery for esophageal carcinoma. Updated sections covering disorders of the liver, biliary tract, and pancreas with information and images regarding new classification and treatment implications for pancreatitis, including autoimmune (IgG4-related) pancreatitis. Increased number of illustrations of all appropriate imaging modalities, such as multiplanar CT, sonography, MR, and PET/CT. Offers information on all forms of acute and chronic hepatitis and cirrhosis, as well as critical knowledge regarding imaging techniques that allow radiologists to distinguish among focal lesions in the cirrhotic liver. Essential information is distilled into a succinct, bulleted format with numerous high-quality images and "Key Facts" boxes to facilitate learning. Rapid advances in cancer research, the development of new and more sophisticated approaches to diagnostic testing, and the growth in targeted cancer therapies are transforming the landscape of cancer diagnosis and

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care. These innovations have contributed to improved outcomes for patients with cancer, but they have also increased the complexity involved in diagnosis and subsequent care decisions. To examine opportunities to improve cancer diagnosis and care, the National Academies of Sciences, Engineering, and Medicine developed a two-workshop series. The first workshop, held on February 12-13, 2018, in Washington, DC, focused on potential strategies to ensure that patients have access to appropriate expertise and technologies in oncologic pathology and imaging to inform their cancer diagnosis and treatment planning, as well as assessment of treatment response and surveillance. This publication chronicles the presentations and discussions at the workshop.

While specialists often guide the care to lung cancer patients, it is often a general radiologist who is left to interpret studies that impact patient care and management. Lung Cancer Imaging provides a comprehensive guide to the diagnosis, staging and overview of the management of lung cancer relevant to practicing radiologists so that they can better understand the decision making issues and provide more directed and useful communication to the treating physicians. It Primary Care physicians will also find this book valuable to understand the relevant issues that they face when one of their patients is being treated for lung cancer. Completely updated to reflect the latest developments in science and technology, the second edition of this reference presents the diagnostic imaging tools essential to the detection, diagnosis, staging, treatment planning,

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and post-treatment management of cancer in both adults and children. Organized by major organs and body systems, the text offers comprehensive, abundantly illustrated guidance to enable both the radiologist and clinical oncologist to better appreciate and overcome the challenges of tumor imaging.

Authored by some of the world's preeminent authorities in its field, this new book represents today's best single source of guidance on breast imaging! It presents more details for each diagnosis · more representative images · more case data · and more current references than any other reference tool. At the same time, its user-friendly format lets readers access all of this information remarkably quickly! Covers the top imaging diagnoses in breast, including both common and uncommon entities. Provides exquisitely reproduced imaging examples for every diagnosis-plus concise, bulleted summaries of terminology · imaging findings · key facts · differential diagnosis · pathology · clinical issues · a diagnostic checklist · and selected references. Includes an extensive image gallery for each entity, depicting common and variant cases. Offers a vivid, full-color design that makes the material easy to read. Displays a "thumbnail" visual differential diagnosis for each entity. This is one of the first books to deal specifically with diagnostic imaging of the entire spectrum of kidney cancers. Both new and conventional imaging modalities are fully considered. After an introductory chapter on the histopathological classification of kidney cancers, the advantages and disadvantages of the various imaging modalities used in the diagnosis and assessment of

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disease extension are documented. Subsequent chapters offer an exhaustive description of the radiological features of the different histological subtypes of kidney cancer, with radiological and histological illustrations and tables. The latest innovations in interventional and minimally invasive procedures are also well covered. The book benefits from carefully chosen and technically excellent images. Each of the 24 chapters is written by an internationally acclaimed expert, making this book the most current and complete treatment of the subject available. It should be of great interest to radiologists, oncologists, and urologists. Imaging is a critical component of the management of patients having radiotherapy. This book covers the basic principles of the main imaging modalities; site specific chapters give best practice for individual tumour sites, and it also contains information on radioprotection and regulatory issues.

The present book on Molecular & Diagnostic Imaging and Treatment Strategies of ovarian cancer is one of two companion books with the second one being focused on Cell and Molecular Biology of Ovarian Cancer. Both books include new exciting aspects of ovarian cancer research with chapters written by experts in their respective fields who contributed their unique expertise in specific ovarian cancer research areas and include cell and molecular details that are important for the specific subtopics. Comprehensive and concise reviews are included of key topics in the field.

Radiation Protection in Medical Imaging and Radiation Oncology focuses on the professional, operational, and

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regulatory aspects of radiation protection. Advances in radiation medicine have resulted in new modalities and procedures, some of which have significant potential to cause serious harm. Examples include radiologic procedures that require ve

The bestselling Diagnostic Imaging series now includes a comprehensive reference devoted to oncology. Written and edited by renowned experts in radiology, oncology, and body imaging, this book sets a new standard in cancer imaging references.

This is the second edition of a well-received book reflecting the state of the art in oncologic imaging research and promoting mutual understanding and collaboration between radiologists and clinical oncologists. It presents all currently available imaging modalities and covers a broad spectrum of oncologic diseases for most organ systems. Today, oncologic imaging faces the challenge of improving and refining concepts for precise tumor delineation and biologic/functional tumor characterization, as well as for purposes of creating individual treatment plans. The concept of radiomics has further advanced the conversion of images into mineable data and subsequent analysis of said data for decision-making support. Since the release of the book's first edition, radiomics has been introduced in oncology studies and can be performed with tomographic images from CT, MRI and PET/CT studies. The combination of radiomic data with genomic features is known as radiogenomics, and can potentially offer additional decision-making support. This book will be of interest to clinical oncologists with regard

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to the diagnosis, staging, treatment and follow-up on various tumors affecting the CNS, chest, abdomen, urogenital and musculoskeletal systems.

Covering the entire spectrum of this fast-changing field, *Diagnostic Imaging: Breast*, third edition, is an invaluable resource not only for radiologists, but for all health care professionals involved in the management of breast disease. From screening and diagnostic mammography and tomosynthesis, ultrasound, and MR to contrast-enhanced mammography and molecular imaging, Drs. Wendie Berg and Jessica Leung, along with their expert author team, provide carefully updated information in a concise, bulleted format. Thousands of high-quality illustrations highlight not only image acquisition and interpretation, but also screening guidelines, breast anatomy, genetic testing, image-guided procedures, determining the extent of disease and much more. This book provides essential, clinically-focused details for everyday breast imaging. Features more than 4,000 annotated, updated images throughout, including imaging findings complemented by histopathologic and clinical correlates of the spectrum of breast disease. Provides timely coverage of less common but important topics such as gender reassignment, disease-causing mutations and risk assessment, malignancy in pregnancy, nodal disease in breast cancer care, and male breast disease. Discusses new technologies, including abbreviated MR, contrast-enhanced mammography, and automated breast ultrasound. Includes updated information on evolving medical, oncologic, surgical, and radiation, and oncoplastic

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treatment of the breast cancer patient, along with discussion of ongoing trials and future directions Offers expanded and updated information on dense breast reporting, screening recommendations, patients at elevated risk, and imaging paradigms in patients with dense breasts, as well as analysis of various updated breast cancer screening guidelines Uses bulleted, succinct text for fast and easy comprehension of essential information

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