



Digital Mammography (Medical Radiology)

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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 finally 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.

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Editorial Review

Review

From the reviews:

“The NHS Breast Screening Programme is currently undergoing conversion from analogue films to digital, the timing of this book is particularly apposite for UK readers. ... for those techies out there who just feel more comfortable understanding the technology ‘under the bonnet’ or as a source of reference, this book is brilliant. ... it would be a useful addition to your breast unit’s reference library” (David Green, RAD Magazine, March, 2011)

“The aim of this 209 page/13 chapter book is to introduce all the technical details, opportunities and problems related to the use of digital mammography (DM) to the reader. ... The authors, all well known in their field of research and daily work, have produced a book which will be of help to all those who are using or will be using DM in the future, to provide the best diagnostic results in the endless fight against breast cancer.” (Giampiero Beluffi, La Radiologia Medica, Vol. 116, 2011)

“This is a brief but comprehensive overview of how the use of digital technique impacts the performance and interpretation of mammographic images. ... The intended audience is radiologists in practice and radiology residents, as well as clinicians including gynecologists, oncologists, and breast surgeons. I would expand the intended audience to include mammography technologists, particularly those in supervisory positions and those tasked with quality assurance. ... Overall, this is an excellent book, easy to read, and complete but concise.” (Dana Smetherman, Doody’s Review Service, February, 2012)

“The book provides a comprehensive description of most of the important aspects of digital mammography suitable for radiographers, film readers, radiologists and physicists. It should be a useful starting place for those being introduced to digital mammography systems, as well as a good summary of the current state of knowledge for those already involved in breast imaging.” (Rosemary Toye, RAD Magazine, July, 2012)

From the Back Cover

This state-of-the-art reference book provides in-depth coverage of all aspects of digital mammography, including detector technology, image processing, computer-aided diagnosis, soft-copy reading, digital workflow, and PACS. Specific advantages and disadvantages of digital mammography in comparison to screen-film mammography are thoroughly discussed. By including authors from both North America and Europe, the book is able to outline variations in the use, acceptance, and quality assurance of digital mammography between the different countries and screening programs. Advanced imaging techniques and future developments such as contrast mammography and digital breast tomosynthesis are also covered in detail. All of the chapters are written by internationally recognized experts and contain numerous high-quality illustrations. This book will be of great interest both to clinicians who already use or are transitioning to digital mammography and to basic scientists working in the field.

Users Review

From reader reviews:

Patricia Nebeker:

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