



Physics of Mammographic Imaging (Imaging in Medical Diagnosis and Therapy)

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Due to the increasing number of digital mammograms and the advent of new kinds of three-dimensional x-ray and other forms of medical imaging, mammography is undergoing a dramatic change. To meet their responsibilities, medical physicists must constantly renew their knowledge of advances in medical imaging or radiation therapy, and must be prepared to function at the intersection of these two fields. **Physics of Mammographic Imaging** gives an overview on the current role and future potential of new alternatives to mammography in the context of clinical need, complementary approaches, and ongoing research.

This book provides comprehensive coverage on the fundamentals of image formation, image interpretation, analysis, and modeling. It discusses the use of mammographic imaging in the detection, diagnosis, treatment planning, and monitoring of breast cancer. Expert authors give a balanced summary of core topics such as digital mammography, contrast-enhanced mammography, stereomammography, breast tomosynthesis, and breast CT. The book highlights the use of mammographic imaging with complementary breast imaging modalities such as ultrasound, MRI, and nuclear medicine techniques. It discusses critical issues such as computer-aided diagnosis, perception, and quality assurance.

This is an exciting time in the development of medical imaging, with many new technologies poised to make a substantial impact on breast cancer care. This book will help researchers and students get up to speed on crucial developments and contribute to future advances in the field.

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