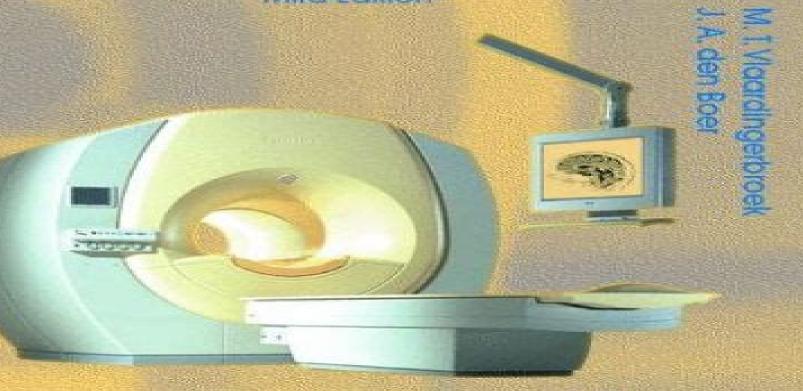
Magnetic Resonance Imaging

Theory and Practice

Third Edition





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Magnetic Resonance Tomography Maximilian F Reiser, Wolfhard Semmler, Hedvig Hricak, 2007-12-05 With an incredible 2400 illustrations and written by a multitude of international experts this book provides a comprehensive overview of both the physics and the clinical applications of MRI including practical guidelines for imaging The authors define the importance of MRI in the diagnosis of several disease groups in comparison or combination with other methods Chapters dealing with basic principles of MRI MR spectroscopy MRS interventional MRI and functional MRI fMRI illustrate the broad range of applications for MRI Both standard and cutting edge applications of MRI are included Material on molecular imaging and nanotechnology give glimpses into the future of the field Imperial Technoscience Amit Prasad, 2014-03-14 A study of science and technology practices that shows how even emergent aspects of research and development remain entangled with established hierarchies In the last four decades during which magnetic resonance imaging MRI has emerged as a cutting edge medical technology and a cultural icon technoscientific imaginaries and practices have undergone a profound change across the globe Shifting transnational geography of tecchnoscientific innovations is making commonly deployed Euro West centric divides such as west versus non west or innovating north versus non innovating south increasingly untenable the world is indeed becoming flatter Nevertheless such dualist divides which are intimately tied to other dualist categories that

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disposal with which to study food at both the micro and macrostructural levels But when it comes to analyzing dynamic structural changes in food during processing and storage none can compare with magnetic resonance imaging MRI Still a very young approach MRI food imaging has contributed greatly to recent advances in food science and promises to yield much more valuable information in the years ahead Written by a leading pioneer in the field Magnetic Resonance Imaging in Food Science covers the latest in MRI food imaging theory and practice Written primarily for food scientists and engineers the book offers a practical unified approach to the subject Material is organized in three main parts corresponding to the distances of scale probed by MRI studies namely the macroscopic microscopic and macromolecular Throughout the emphasis is on ways in which studies of food undergoing processes can be modeled using the equations of heat mass and momentum transport and how those models can be used in process design optimization programs Magnetic Resonance Imaging in Food Science provides researchers with the most up to date detailed coverage of Traditional and cutting edge MRI food imaging techniques and technologies including STRAFI gradient echo imaging and functional imaging Whole plant functional imaging flow imaging and rheology and other specialized MRI applications The roles of food microstructure and molecular relaxation mechanisms in controlling moisture and heat transport Techniques for modeling structural changes during food processing Magnetic Resonance Imaging in Food Science is an important working resource for all researchers engaged in the never ending struggle to produce safer higher quality foods more efficiently Modern Pharmaceutics Volume 1 Alexander T. Florence, Juergen Siepmann, 2009-05-28 With over 100 illustrations Volume 1 addresses the core disciplines of pharmaceutics absorption PK excipients tablet dosage forms and packaging and explores the challenges and paradigms of pharmaceutics Key topics in Volume 1 include principles of drug absorption chemical kinetics and drug stability pharmacokinetics the effect of rout

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