



Magnetic Resonance Angiography: Principles and Applications

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Magnetic Resonance Angiography: Principles and Applications is a comprehensive text covering magnetic resonance angiography (MRA) in current clinical use. The first part of the book focuses on techniques, with chapters on contrast-enhanced MRA, time of flight, phase contrast, time-resolved angiography, and coronary MRA, as well as several chapters devoted to new non-contrast MRA techniques. Additionally, chapters describe in detail specific topics such as high-field MRA, susceptibility-weighted imaging, acceleration strategies such as parallel imaging, vessel wall imaging, targeted contrast agents, and low dose contrast-enhanced MRA. The second part of the book covers clinical applications of MRA, with each chapter describing the MRA techniques and protocols for a particular disease and vascular territory, as well as the pathology and imaging findings relevant to the disease state being discussed.

Magnetic Resonance Angiography: Principles and Applications is designed to bring together into a single textbook all of the MRA techniques in clinical practice today and will be a valuable resource for practicing radiologists and other physicians involved in the diagnosis and treatment of vascular diseases, as well as biomedical physicists, MRI technologists, residents, and fellows.

Editors

James C. Carr, MD, is the Director of Cardiovascular Imaging and Associate Professor of Radiology and Medicine at Northwestern University Feinberg School of Medicine, Chicago, Illinois, USA.

Timothy J. Carroll, PhD, is the Director of MRI Research and Associate Professor in the Departments of Biomedical Engineering and Radiology at

Northwestern University, Evanston, Illinois, USA.

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Editorial Review

Review

From the reviews:

“This book outlines the history and evolution of magnetic resonance angiography (MRA), as well as clinical applications. ... I would recommend it for both medical physicists and radiology residents and physicians. ... Literature references at the end of each chapter enable readers to obtain more information. This book will be a good resource for those currently in the field as well as those who are just starting out. I would recommend it for readers who need to learn more about MRA.” (Lara Dyke, Doody's Book Reviews, April, 2013)

“This book consists of two sections, each containing a number of independent chapters by different authors. The first section covers MRI and magnetic resonance angiography (MRA) techniques and the second section focuses more on application of MRA to imaging specific parts of the body. ... the book seems to thoroughly cover the field of MRA and would be a useful reference to any person who is interested or working in MRA.” (Daniel Badger, Australasian Physical & Engineering Sciences in Medicine, Vol. 36, 2013)

From the Back Cover

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