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MR perfusion imaging is an area of major research interest and rapid clinical growth. *Clinical Perfusion MRI: Techniques and Applications* provides a concise and comprehensive review of the principles and applications of the field, covering dynamic susceptibility contrast, dynamic contrast enhancement, and arterial spin labeling imaging techniques. Principles of blood-volume and oxygenation imaging are included. The clinical applications of perfusion imaging in neurological disease and neuroscience are discussed – major topics including its use in imaging cerebrovascular disease and brain tumors and other neurological and neurodegenerative disorders. Non-neurologic applications are also covered with chapters on cardiac disease, breast cancer and other organ systems. Use of MR perfusion imaging in pediatrics is also discussed. Throughout the book case reports are included illustrating representative clinical examples. This book will be of interest to any clinician who uses MR perfusion imaging in their clinical practice, as well as researchers in the field of MRI.

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