

Understanding Phase Contrast MR Angiography A Practical Approach with MATLAB Examples

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Understanding Phase Contrast Angiography Springerbriefs

**Martin F. Bach, Thomas M. Grist, Jörg F.
Debatin**



Understanding Phase Contrast Angiography Springerbriefs:

Understanding Phase Contrast MR Angiography Joseph Suresh Paul, Subha GR, 2015-12-12 Providing many unique MATLAB codes and functions throughout this book covers the basics of Magnetic Resonance Imaging MRI leading to an in depth understanding of the concepts and tools required for analysis and interpretation of Phase Contrast MR Angiography PC MRA The concept of PC MRA is often difficult but essential for practicing engineers and scientists working in MR related areas The concepts are better understood by uniquely combining the physical principles of fluid flow and MR imaging laid out by modeling the theory and applications using a commonly used software tool MATLAB The book starts with a detailed theory of PC MRA followed by a description of various image processing methods including detailed MATLAB codes used for their implementation The flow concepts in the context of MR imaging are explained using MATLAB based simulations 3D Contrast MR Angiography Martin F. Bach, Thomas M. Grist, Jörg F. Debatin, 1997 Non invasive high resolution contrast arteriography without arterial catheterization or nephrotoxicity is possible using Gadolinium contrast and an MR scanner The success of this technique is reflected by its incorporation into clinical practice in centers throughout the world It has been applied to multiple vascular territories using a variety of magnets and imaging strategies A thorough understanding of the underlying mechanisms and proper technique are essential to fully exploit the diagnostic potential of this new form of angiography This book will familiarize the reader with the basic principles of 3D Contrast MRA All relevant technical aspects are addressed imaging protocols are provided and tailored imaging strategies are described for different vascular regions The book also includes a glossary

Adopting the Track of Phrase: An Mental Symphony within **Understanding Phase Contrast Angiography Springerbriefs**

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