Susceptibility Weighted Imaging in MRI. Basic Concepts and Clinical Applications

Description: MRI Susceptibility Weighted Imaging discusses the promising new MRI technique called Susceptibility Weighted Imaging (SWI), a powerful tool for the diagnosis and treatment of acute stroke, allowing earlier detection of acute stroke hemorrhage and easier detection of microbleeds in acute ischemia. The book is edited by the originators of SWI and features contributions from the top leaders in the science. Presenting an even balance between technical/scientific aspects of the modality and clinical application, this book includes over 100 super high-quality radiographic images and 100 additional graphics and tables.

16 Cerebral Venous Diseases and Occult Intracranial Vascular Malformations (Hans-Joachim Mentzel, Guangbin Wang, Masahiro Ida, and Jürgen R. Reichenbach).

17 Sturge-Weber Syndrome (Zhifeng Kou, Csaba Juhasz and Jiani Hu).

18 Visualizing the Vessel Wall Using Susceptibility Weighted Imaging (Yang Qi, Samuel Barnes and E. Mark Haacke).


20 Susceptibility Weighted Imaging at Ultrahigh Magnetic Fields (Andreas Deistung, Samuel Barnes, Yulin Ge, and Jürgen R. Reichenbach).

Part III Advanced Concepts.


22. Measuring Iron Content with Phase (Manju Liu, Charbel Habib, Yanwei Miao, and E. Mark Haacke).

23 Validation of Phase Iron Detection with Synchrotron X-Ray Fluorescence (Helen Nichol, Karla Hopp, Bogdan F. Popescu, and E. Mark Haacke).

24 Rapid Calculation of Magnetic Field Perturbations from Biological Tissue in Magnetic Resonance Imaging (Jaladhar Neelavalli, Yu-Chung Norman Cheng, and E. Mark Haacke).


26 Effects of Contrast Agents in Susceptibility Weighted Imaging (Andreas Deistung and Jürgen R. Reichenbach).

27 Oxygen Saturation: Quantification (E. Mark Haacke, Karthik Probhakaran, Ilaya Raja Elangovan, Zhen Wu, and Jaladhar Neelavalli).


29. Integrating Perfusion Weighted Imaging, MR Angiography, and Susceptibility Weighted Imaging (Meng Li and E. Mark Haacke).

30 Functional Susceptibility Weighted Magnetic Resonance Imaging (Markus Barth and Daniel B. Rowe).

31 Complex Thresholding Methods for Eliminating Voxels That Contain Predominantly Noise in Magnetic Resonance Images (Daniel R. Rowe, Jing Jiang, and E. Mark Haacke).

32 Automatic Vein Segmentation and Lesion Detection: from SWI-MIPs to MR Venograms (Samuel Barnes, Markus Barth and Peter Koopmans).

33 Rapid Acquisition Methods (Song Lai, Yingbiao Xu and E. Mark Haacke).

34 High-Resolution Venographic BOLD MRI of Animal Brain at 9.4 T: Implications for BOLD fMRI (Seong-Gi Kim and Sung Hong Park).

35 Susceptibility Weighted Imaging in Rodents (Yimin Shen, Zhigeng Kou, and E. Mark Haacke).

36 Ultrashort TE Imaging: Phase and Frequency Mapping of Susceptibility Effects in Short T2 Tissues of the Musculoskeletal System (Jiang Du, Michael Carl, and Graeme M. Bydder).

Appendix: Seminal Articles Related to the Development of Susceptibility Weighted Imaging.

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