

PRINCIPLES AND APPLICATIONS OF MAGNETIC PARTICLE IMAGING

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Bernhard Gleich introduces Magnetic Particle Imaging (MPI) including all aspects that are necessary for a complete understanding. MPI is a new imaging modality invented by Bernhard Gleich and Jrgen Weizenecker. The method is capable of imaging the distribution of superparamagnetic iron oxide

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The method is capable of imaging the distribution of superparamagnetic iron oxide particles (SPIOs) with high sensitivity, high spatial resolution, and high imaging speed. The author summarizes the results of a number of original papers and countless innovations he has elaborated in the young discipline of magnetic particle imaging.

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The dependence of threshold magnetic field calculated and determined in interaction energy, on particle sizes for various minerals was given in Fig. 11, which indicates that B_F strongly depends on particle radius and on magnetic susceptibility, e.g. decreases with increased particle radius and magnetic susceptibility.

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Magnetic particle imaging (MPI) is a new medical imaging technique which performs a direct measurement of magnetic nanoparticles, also known as superparamagnetic iron oxide. MPI can acquire quantitative images of the local distribution of the magnetic material with high spatial and temporal resolution. Its sensitivity is well above that of other methods used for the detection and quantification of magnetic materials, for example, magnetic resonance

imaging. On the basis of an intravenous

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Magnetic particle imaging (MPI) is a new tomographic technique developed in the early 2000s. 1 In contrast to traditional imaging modalities such as MR imaging, sonography, x-ray, and CT, MPI is not a structural imaging technique.

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Magnetic particle imaging: current developments and future ...

Magnetic particle imaging (MPI) is a novel imaging method that was first proposed by Gleich and Weizenecker in 2005. Applying static and dynamic magnetic fields, MPI exploits the unique characteristics of superparamagnetic iron oxide nanoparticles (SPIONs).

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Principles and Applications of Magnetic Particle Imaging (Aktuelle Forschung Medizintechnik - Latest Research in Medical Engineering) by Bernhard Gleich (2013-09-30): Books - Amazon.ca