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Electromagnetics in Magnetic Resonance Imaging

Electromagnetics in Magnetic Resonance Imaging: Physical Principles, Related Applications, and Ongoing Developments Christopher M Collins Chapter 1 Fundamentals of MRI fields and basic pulse sequences In the past few decades, magnetic resonance imaging (MRI) has become an indispensable tool in medicine, with MRI systems now available at every major

Electromagnetics in Magnetic Resonance Imaging: Physical

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Electromagnetics in Magnetic Resonance Imaging ...

Magnetic Resonance Imaging (MRI) is based on radio frequency (RF) interrogation of the human body at frequencies between 40 MHz to 300 MHz. An RF transmitter excites proton spin precession and then, in a manner analogous to an RF ID tag, the proton's precessional ring down reports back local information about its environment.

Electromagnetics for Quantitative Magnetic Resonance Imaging

Electromagnetic Analysis and Design in Magnetic Resonance Imaging is unique in its detailed examination of the analysis and design of the hardware for an MRI system. It takes an engineering perspective to serve the many scientists and engineers in this rapidly expanding field. Chapters present: an introduction to MRI

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MRIs employ powerful magnets which produce a strong magnetic field that forces protons in the body to align with that field. When a radiofrequency current is then pulsed through the patient, the protons are stimulated, and spin out of equilibrium, straining against the pull of the magnetic field. When the radiofrequency field is turned off, the MRI sensors are able to detect the energy released as the protons realign with the magnetic field.

Magnetic Resonance Imaging (MRI)

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Electromagnetics in Magnetic Resonance Imaging: Physical ...

Magnetic resonance imaging (MRI) is a medical imaging technique used in radiology to form pictures of the anatomy and the physiological processes of the body. MRI scanners use strong magnetic fields, magnetic field gradients, and radio waves to generate images of the organs in the body.

Magnetic resonance imaging - Wikipedia

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