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and three-dimensional images similar to those of x-ray computed tomography (CT).

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Chapter 1

Fundamentals of

MRI—fields and basic

pulse sequences In

the past few decades,

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Magnetic resonance imaging (MRI) has become an indispensable tool in medicine, with MRI systems now available at every major

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Resonance Imaging.

AU - Jin, Jian Ming.

PY - 1998/12/1. Y1 -

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tomography (CT).

*Resonance  
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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

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excites proton spin precession and then, in a manner analogous to an RFID tag, the proton's precessional ring-down reports back local information about its environment.

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in Magnetic  
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unique in its detailed  
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Magnetic Resonance  
Imaging is much less  
commonly understood

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and less readily explained than other common medical imaging techniques. This book explains MRI with ...

*Electromagnetics in Magnetic Resonance Imaging, Morgan ...*  
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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

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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*

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*Imaging (MRI)*

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*Electromagnetics in Magnetic Resonance*

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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

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waves to generate images of the organs in the body.

*Magnetic resonance imaging - Wikipedia*

Electromagnetic Analysis and Design in Magnetic

Resonance Imaging is unique in its detailed examination of the analysis and design of the hardware for an

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MRI system. It takes an engineering...

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