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biophysics, chemistry,
electrical engineering,
and radiology with a
systematic, in-depth
understanding of MRI
principles.

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brief introduction to
MRI. Magnetic

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Magnetic resonance imaging (MRI) makes use of the magnetic properties of certain atomic nuclei. An example is the hydrogen nucleus (a single proton) present in water molecules, and therefore in all body tissues.

Magnetic resonance imaging - Wikipedia

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Magnetic resonance imaging (MRI) uses powerful magnets to realign a body's atoms, which creates a magnetic field that a scanner uses to create a detailed image of the body.

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Magnetic resonance

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imaging (MRI) is an important tool in the diagnosis and evaluation of diseases . In the early 1970s, Paul Lauterbur and Raymond Damadian applied nuclear magnetic resonance (NMR) technology to the imaging of living organisms, generating images referred to as zeugmatographs .

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Imaging provides a
contemporary
introduction to the
fundamental concepts
of MRI, applies these
concepts in
biomedical
applications, and

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relates these concepts
to the latest MRI
developments.

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reconstruction ;
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read book to improve
your knowledge of
this revolutionary
technique.

Magnetic Resonance
Imaging (MRI)
Scanning - Principles

...

Fig. 4.1 (a–d)

Magnetic resonance

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imaging (MRI)
showing renal scars
in a 3-year-old girl
with reflux
nephropathy.
Dimercaptosuccinic
acid (DMSA)
radionuclide scan
comparative coronal
levels (1, 2) are
shown [37] Basics of
Magnetic Resonance
Imaging Phenomenon
of Nuclear Magnetic

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Resonance (NMR)
MRI and nuclear
magnetic resonance
spectroscopy (NMRS)
are based on the
phenomenon of
nuclear...

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Magnetic resonance
imaging (MRI) is a
medical imaging

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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.

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Imaging (MRI) |
Radiology Key

Magnetic Resonance
Imaging: Principles
and Techniques:
Lessons for Clinicians
Abstract. The
development of
magnetic resonance
imaging... MR Field
Gradients. Localizing
the MR signal

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spatially to a region of interest requires the use... RF Coils.

The transmitter and receiver coils may be either ...

What is an MRI
(Magnetic Resonance
Imaging)? | Live
Science

Magnetic resonance
imaging (MRI) is a
noninvasive imaging

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technique that is becoming more and more important in clinical cardiology.

Physicians must understand the basic principles of MRI before reliable use in practice is possible.

Principles of
magnetic resonance
imaging
Magnetic resonance

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(MR) imaging technology has undergone many technologic advances over the past few years. Many of these advances were stimulated by the wealth of information emerging from nuclear magnetic resonance research in the areas of new and optimal scanning

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methods and radio-
frequency coil design.

What is MRI?

Principles of
functional Magnetic
Resonance Imaging 7
be generated to
emphasize contrast
related to different
tissue characteristics.
In addition, the
scanner can be used
to study the

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directional patterns of
water diffusion { di
fusion-weighted
imaging (DWI) used
to measure white-
matter tracts { elastic
properties of brain
tissue, flow of
cerebrospinal

Chapter 2 - Principles
of Magnetic
Resonance Imaging
In magnetic

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resonance, the characteristic frequency depends upon the characteristics of the spin under investigation and the strength of the applied magnetic field as: $f = \gamma B$ where γ is the gyromagnetic ratio, a fundamental constant for a given spin, and

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B the field strength.
This famous
relationship is known
as the Larmor
equation.

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Chapter 2 Principles
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2.1 Introduction. 2.2

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Quantum Mechanical
description of NMR

2.2.2 The Classical

Description of NMR

2.2.3 Relaxation and

Signal Detection 2.2.4

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Magnetic Field
Gradients

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Magnetic resonance
imaging can produce

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highly sophisticated and highly detailed images of the human body. Generally speaking, MRI scanning is excellent for visualising soft tissue – and so it is often used in the detection of tumours, strokes and bleeds. It also can be used to visualise the functionality of

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suspected masses and
tumours through IV,
gadolinium-based
agents.

Magnetic Resonance
Imaging: Principles
and Techniques ...
Magnetic resonance
imaging is based on
the techniques of
nuclear magnetic
resonance. The
scanner first aligns

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the nuclear spins of
hydrogen atoms in
the patient and starts
rotating them

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imaging (Book, 2010

...

Imaging Principles
Magnetic resonance
imaging (MRI)
measures the spatial
distribution of

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specific nuclear spins (usually those of protons) in the body. Electric signals from the spins are measured using precessional motion of the proton spins after they are excited by radiofrequency (RF) pulses irradiated in a static magnetic field.

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