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1999-11-01 In 1971 Dr.
Paul C. Lauterbur
pioneered spatial
information encoding
principles that made
image formation
possible by using
magnetic resonance
signals. Now Lauterbur,
"father of the MRI", and
Dr. Zhi-Pei Liang have
co-

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(fMRI) has now become
the standard tool for
studying the brain
systems involved in
cognitive and
emotional processing.

It has also been a
major factor in the
consilience of the fields
of neurobiology,
cognitive psychology,
social psychology,

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mathematics,

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engineering, and even

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imaging is based on
the techniques of
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Bernstein, King and

Zhou, Handbook of MRI

Pulse Sequences

Elsevier/Wiley, 2004

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Amazon here. This is an excellent book, which anyone working in MRI will want to have. Z.-P. Liang, P. Lauterbur, Principles of Magnetic Resonance Imaging: A Signal Processing Perspective, IEEE Press. A link to Amazon Here. Haacke, Brown, Thompson, and Venkatesan, Magnetic Resonance Imaging ...

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Stanford, Calif. :

Stanford Univ., 1996

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of nuclear magnetic

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Magnetic resonance (NMR) phenomena already have a life span approaching eight decades (1-5). In contrast, biomedical applications are young, with the technology's potential for cancer diagnostics first noted in 1971 (6, 7). Imaging innovations enabling spatial resolving of the NMR signal leading to whole-body MRI system design followed from ...

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Nishimura, Stanford
University (Provided by
the instructor) Topic of
Lectures 1.

Introduction to MRI 2.

Concepts of magnetic
resonance 3. MRI

system and

Instrumentation 4.

Relaxation and

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Magnetic Resonance Imaging (MRI) is a widely applied non-invasive imaging modality based on non-ionizing radiation which gives excellent images and soft tissue contrast of living tissues.

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