

Nuclear magnetic resonance imaging in medicine and biology.

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AbstractAbstract

[en] A book has been written aimed at providing the reader with a sound physical understanding of the theory and practice of n.m.r. imaging. First a general introduction to n.m.r. imaging and imaging systems is given. This is followed by a description of basic n.m.r. theory, including an introduction to Fourier transform n.m.r. and to spin-spin and spin-lattice relaxation times. The chapter on point and line imaging methods introduces the concepts of t.m.r. and selective excitation. A detailed discussion is given of two- and three-dimensional imaging methods which find application in commercial systems. The highly efficient technique of echo-planar imaging is also described. Instrumentation and magnet choice and design are discussed. Finally an extensive chapter on applications is given including sections on how to obtain good tissue contrast and copious examples of clinical applications illustrated with up-to-date high quality n.m.r. images. (UK)

Primary Subject

[RADIOLOGY AND NUCLEAR MEDICINE \(C6100\)](#)

Source

1986; 388 p; Clarendon Press; Oxford (UK); [ISBN 0-19-855155-X](#); ; Price Pound35.00

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