Nuclear Magnetic Resonance (Cambridge Monographs on Physics)

E. R. Andrew
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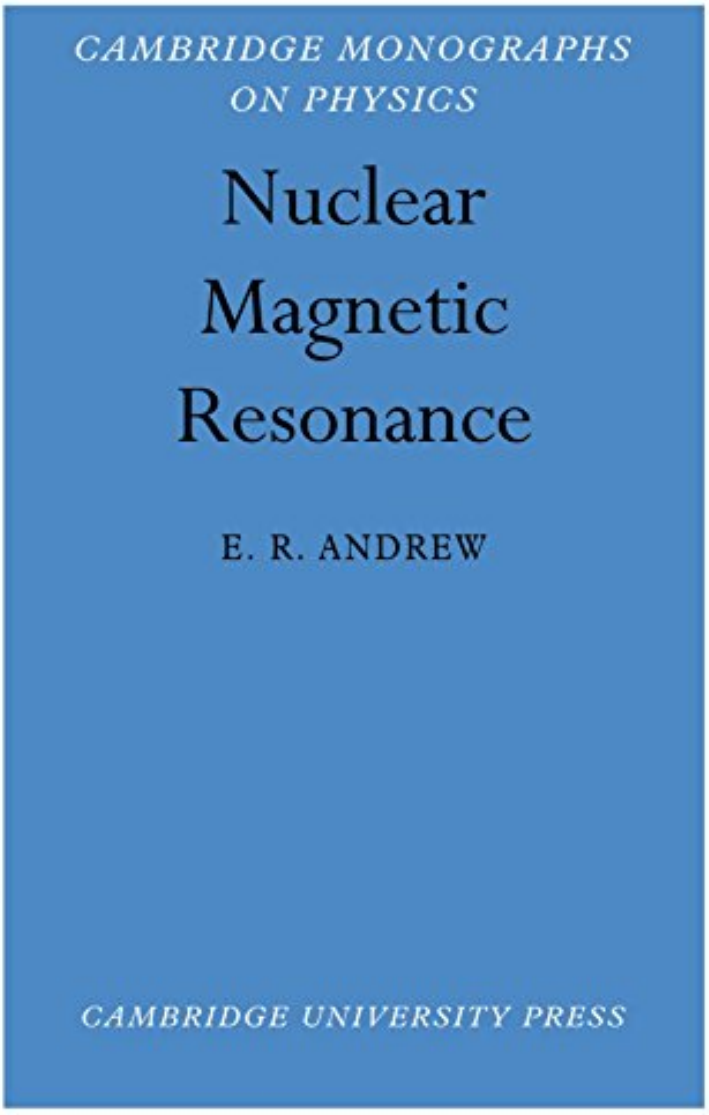

#9438254 in Books Andrew E R 2009-06-25Original language:EnglishPDF # 1 8.50 x .63 x 5.51l, .79 #File Name: 0521114330280 pagesNuclear Magnetic Resonance | File size: 59.Mb

E. R. Andrew : Nuclear Magnetic Resonance (Cambridge Monographs on Physics) before purchasing it in order to gage whether or not it would be worth my time, and all praised Nuclear Magnetic Resonance (Cambridge Monographs on Physics):

Like the earth itself, the nucleus of an atom frequently rotates about an axis. Under the influence of a magnetic field

the axis of rotation itself rotates. The rate of this 'precessional' motion is proportional to the strength of the magnetic field and usually lies in the region of radio-frequencies. If a collection of such nuclei is placed in a magnetic field is subjected to radio waves at exactly the frequency of precession, there is a resonance effect, which can be used to measure the frequency of the precession. This effect is called nuclear magnetic resonance. The subject concerns all physicists, particularly nuclear physicists and those interested in the solid state. It is of growing importance to chemists, metallurgists and electrical engineers and there have been some biological and geophysical applications. Nuclear magnetic resonance has already found considerable uses in the oil industry, in industries connected with magnet construction, isotope extraction, plastics and rubber.