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Title: Magnetism: Principles and Applications

Authors: [Craig, Derek J.](#)

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Abstract

If you are studying physics, chemistry, materials science, electrical engineering, information technology or medicine, then you'll know that understanding magnetism is fundamental to success in your studies and here is the key to unlocking the mysteries of magnetism..... You can:

obtain a simple overview of magnetism, including the roles of B and H, resonances and special techniques

take full advantage of modern magnets with a wealth of expressions for fields and forces

develop realistic general design programmes using isoparametric finite elements

study the subtleties of the general theory of magnetic moments and their dynamics

follow the development of outstanding materials

appreciate how magnetism encompasses topics as diverse as rock magnetism, chemical reaction rates, biological compasses, medical therapies, superconductivity and levitation

understand the basis and remarkable achievements of magnetic resonance imaging In his new book, Magnetism, Derek Craik throws light on the principles and applications of this fascinating subject. From formulae for calculating fields to quantum theory, the secrets of magnetism are exposed, ensuring that whether you are a chemist or engineer, physicist, medic or materials scientist Magnetism is the book for our course.

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