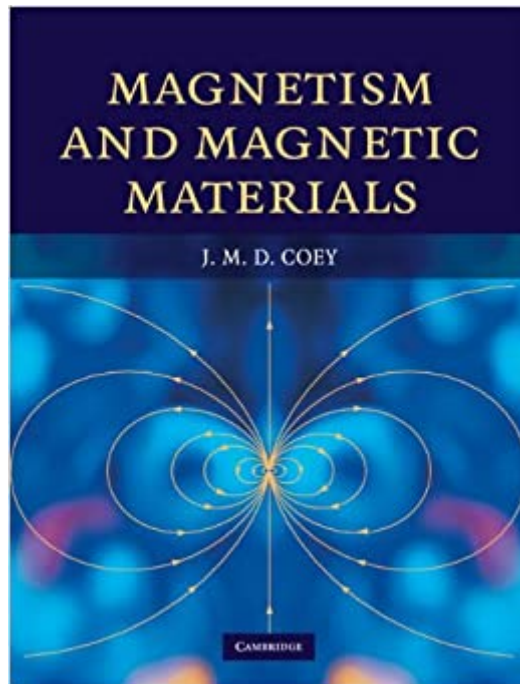


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# Magnetism And Magnetic Materials



## Synopsis

Covering basic physical concepts, experimental methods, and applications, this book is an indispensable text on the fascinating science of magnetism, and an invaluable source of practical reference data. Accessible, authoritative, and assuming undergraduate familiarity with quantum mechanics, electromagnetism and vectors, this textbook can be used on graduate courses. Emphasis is placed on practical calculations and numerical magnitudes - from nanoscale to astronomical scale - with a focus on modern manifestations, including spin electronic devices. Each self-contained chapter begins with a summary, and ends with exercises and further reading. The book is thoroughly illustrated with over 600 figures to help convey concepts and clearly explain ideas. Easily digestible tables and data sheets provide a wealth of useful information on magnetic materials, and 38 principal magnetic materials, and many more related compounds, are treated in detail.

## Book Information

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## Customer Reviews

A wide-ranging text covering basic physical concepts, experimental methods and applications in an attractive format. Illustrated with over 600 figures, helpful tables and data sheets, it treats 38 principal magnetic materials in detail. This is an ideal textbook for graduates and for anyone with a professional interest in magnetism.

J. M. D. Coey leads the Magnetism and Spin Electronics group at Trinity College, Dublin, where he is Erasmus Smith's Professor of Natural and Experimental Philosophy. An authority on magnetism

and its applications, he has been awarded the Gold Medal of the Royal Irish Academy and the Charles Chree Medal of the Institute of Physics for his work on magnetic materials.

bought it for work, cant comment on the book it was not for me, great customer service

Super textbook.

I just got this book and have not get chance to read it carefully. I would like to talk about my first impression:1. Very up-to-date topics can be found here, such as introduction to domain wall logic, Datta-Das transistor and spin-hall effect.2. Very informative figures and pictures! I know everyone knows how Fert and Gr  nberg look, but it is very nice to see a real photo of Wohlfarth- yes, the guy in the stoner-wohlfarth particle.3. The contents well suit experimentalists. If you get bored with Chikazumi , this book will fresh you up.That's it. I will read it and tell you more later.

This book covers a broad spectrum of stuff relating to the phenomenon we recognize as magnetism/electromagnetism. It will be very useful to students or anyone else who wants to know about magnets/magnetic materials. I also recommend   Magnetism: A Strange, Invisible, Strong Force that's Calling all the Shots   which is short essay that serves as a gentle introduction to magnetism.

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