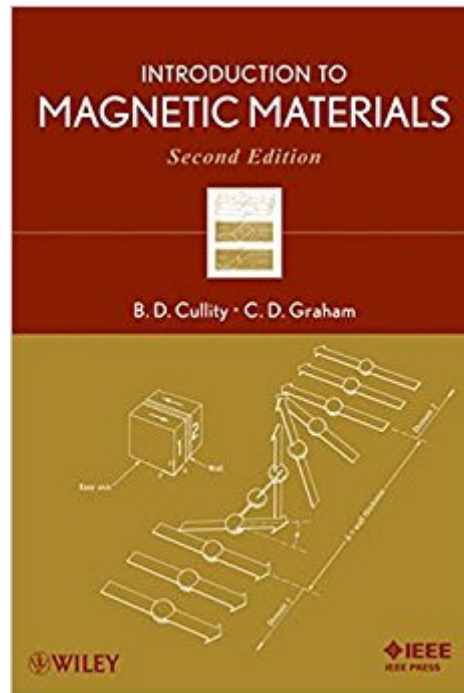




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# Introduction To Magnetic Materials



## Synopsis

Introduction to Magnetic Materials, 2nd Edition covers the basics of magnetic quantities, magnetic devices, and materials used in practice. While retaining much of the original, this revision now covers SQUID and alternating gradient magnetometers, magnetic force microscope, Kerr effect, amorphous alloys, rare-earth magnets, SI Units alongside cgs units, and other up-to-date topics. In addition, the authors have added an entirely new chapter on information materials. The text presents materials at the practical rather than theoretical level, allowing for a physical, quantitative, measurement-based understanding of magnetism among readers, be they professional engineers or graduate-level students.

## Book Information

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## Customer Reviews

"However, if you are a student learning about magnetism or are in industry or academia and need to learn about the fundamentals of magnetism, this is the book to own." (IEEE Electrical Insulation Magazine, 1 July 2011)

B. D. Cullity wrote Introduction to Magnetic Materials explicitly for beginners, at the level of senior undergraduates or first-year graduate students. His ability to write about complex technical topics in a clear, coherent manner made the book an instant classic, and it has remained a popular introduction to the subject for students and teachers alike. Now, more than three decades since its initial publication, Introduction to Magnetic Materials has been revised and updated in this eagerly

awaited Second Edition. Introduction to Magnetic Materials, Second Edition retains much of the original content, while also including updated or new coverage of: Magnetic units, with emu-cgs and SI units used throughout Demagnetizing factors Magnetic measurements, including the SQUID and the alternating gradient magnetometer Magnetic force microscopy Amorphous alloys Rare-earth magnets Magnetic materials in computers Magnetic behavior of superconductors Added material on domain wall structure and energy The material is presented at a practical level, allowing readers to develop a solid understanding of magnetic properties, quantities, and behavior. This timely new edition will be useful to students as well as engineers and scientists involved with magnetic phenomena, materials, and measurements. It crosses traditional disciplinary boundaries, covering topics in solid-state physics, materials science, electrical engineering, and computer science. It can serve as a basic learning and reference work for all those who need to understand the essentials of magnetic behavior.

A solutions manual is now available to bona fide instructors. Contact [ieeeproposals@wiley.com](mailto:ieeeproposals@wiley.com)

Very fast shipping. Good text for beginners .enhances your knowledge of magnetism .a must have text for a condensed matter physicists.

recommended

Good quality

Good for learning!

great book

Heavy product with good balance good product with high quality. my best friend need it , love it . awesome and very well.

What a find! The text is addressed towards a broad audience and assumes only first-year (freshman) physics as a prerequisite. Beginning with a welcome review of basic definitions, it moves smoothly into all the core topics of magnetism. The explanations are clear and the derivations are carefully worked out. End-of-chapter problems are provided. Particularly interesting were the

chapter on experimental methods and the most straightforward discussion on units I have yet seen (units in magnetism are notoriously confusing). Although published in the 70's, the book still has value if you want to learn the fundamentals. I literally couldn't put the book down after I got started, and before I knew it, I had learned so much reading most of it over the weekend....

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