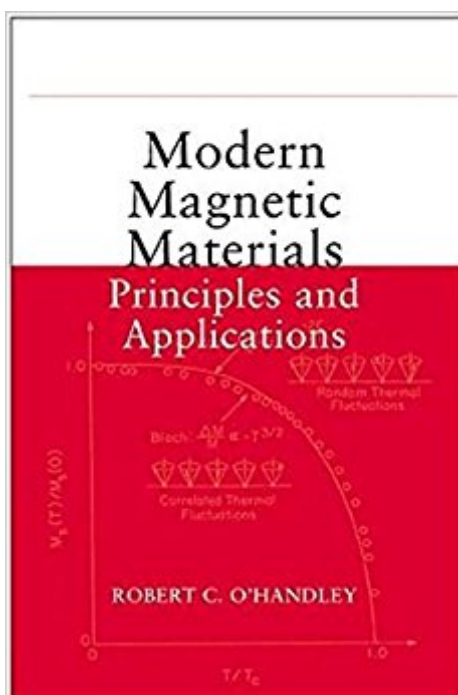


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Modern Magnetic Materials: Principles And Applications



Synopsis

A truly modern treatment of materials that can hold a magnetic field. * Covers cutting-edge materials with many important technical applications. * Includes examples and problems along with computer solutions.

Book Information

Hardcover: 768 pages

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"An appropriate for a graduate or advanced undergraduate level course in magnetism materials—a useful reference resource to researchers in magnetic materials" (IEEE Electrical Insulation Magazine, July/August 2005)

This is an immensely important compilation of the state-of-the-art quantum electronic interpretation of the physics of magnetism. Doctor O'Handley has masterfully organized his lecture notes and has produced a magnum opus. I had the extraordinary good fortune of attending his lecture series at the University of Florida in 1994. The class was primarily for materials engineering graduate students, but I was allowed to take the class because I was doing research in magnetic devices for electrical engineering. Even though the physics involved was at a higher level than I was used to, Dr. O'Handley was able to communicate the necessary concepts in a lucid manner. His intelligible explanations in the lecture hall are repeated and expanded in this well-crafted volume. If you are interested in the science of magnetism from an electrical engineering, or material science, perspective, I wholeheartedly recommend purchasing this book.

good!

Nice book, almost new.

great book

This is the book which contains all about the magnetism practically in use. From the basic theory of magnetism to the practical use, e.g., magnetic recording materials, surface and thin films. This is the best book treating magnetism practically. But this does not contain the rigorous theory using second quantization, e.g., Hubbard Hamiltonian and Anderson Impurity. That is, this book is the introduction for graduate students majoring in experimental condensed matter physics - materials and materials science for practical use.

This book will take you from basic academic knowledge about magnetism to a proficient understanding of the most recent advances in magnetic materials and devices. This book is well very organized and written in a concise manner. Dr. O'Handley has earned our congratulations on both scope and quality for this book. Graduate students, researchers, engineers, theorists, experimenters and other newcomers to the field will find this book an excellent entry to the field as well as a handy reference. The book is one of the best text in the area of applied magnetism. This invaluable book should certainly be present in the library of any department or institute carrying out magnetism R&D work. In other words, it deserves to be on the shelves of any lab or research institute library. I strongly recommend this book to every student and teacher who intends studying or teaching magnetism.

This book has been used for several years in the graduate materials program at Carnegie Mellon University. It is very popular with the students. It has also found a following with the undergraduates who have done research or advanced reading in magnetic materials. The book offers clear physical insights and a discussion of contemporary magnetics applications. Highly recommended.

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