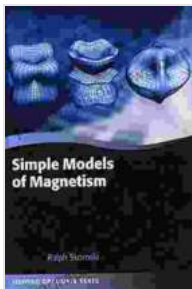


Simple Models of Magnetism: A Comprehensive Guide for Graduate Students

Magnetism is a fundamental force of nature that has been known for centuries. It is responsible for a wide range of phenomena, from the attraction of magnets to the behavior of materials in magnetic fields. In recent years, there has been a growing interest in the study of magnetism, driven by the development of new materials and the discovery of new applications. As a result, there is a need for a comprehensive and up-to-date textbook on magnetism that can provide a unified and accessible presentation of the fundamental principles and applications of the field.



Simple Models of Magnetism (Oxford Graduate Texts)

by Ralph Skomski

★★★★☆ 4.3 out of 5

Language : English

File size : 5900 KB

Print length : 368 pages

Lending : Enabled

Screen Reader : Supported



Simple Models of Magnetism is a graduate-level textbook that meets this need. The book is written in a clear and concise style, and it is illustrated with numerous examples and exercises. It covers a wide range of topics, from the basic concepts of magnetism to the latest developments in the field. The book is divided into three parts:

1. Part I introduces the basic concepts of magnetism, including the magnetic field, the magnetization of materials, and the interaction of magnetic materials with each other.
2. Part II covers the different types of magnetic materials, including ferromagnets, antiferromagnets, and ferrimagnets. It also discusses the magnetic properties of materials at different temperatures and the effects of external magnetic fields.
3. Part III discusses the applications of magnetism, including the use of magnets in motors, generators, and transformers. It also discusses the use of magnetic resonance imaging (MRI) in medicine and the development of new magnetic materials for use in electronics and other applications.

Simple Models of Magnetism is an essential resource for graduate students in physics, materials science, and electrical engineering. With its clear and concise style and its comprehensive coverage of the fundamental principles and applications of magnetism, the book is perfectly suited to serve as a textbook for a graduate course in magnetism. It is also a valuable reference for researchers and practitioners in the field.

Here are some of the key features of Simple Models of Magnetism:

- Clear and concise style
- Numerous examples and exercises
- Comprehensive coverage of the fundamental principles and applications of magnetism
- Up-to-date coverage of the latest developments in the field

- Suitable for use as a textbook for a graduate course in magnetism
- Valuable reference for researchers and practitioners in the field
- Free sample chapter available at
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If you are interested in learning more about magnetism, then Simple Models of Magnetism is the perfect book for you. Free Download your copy today!

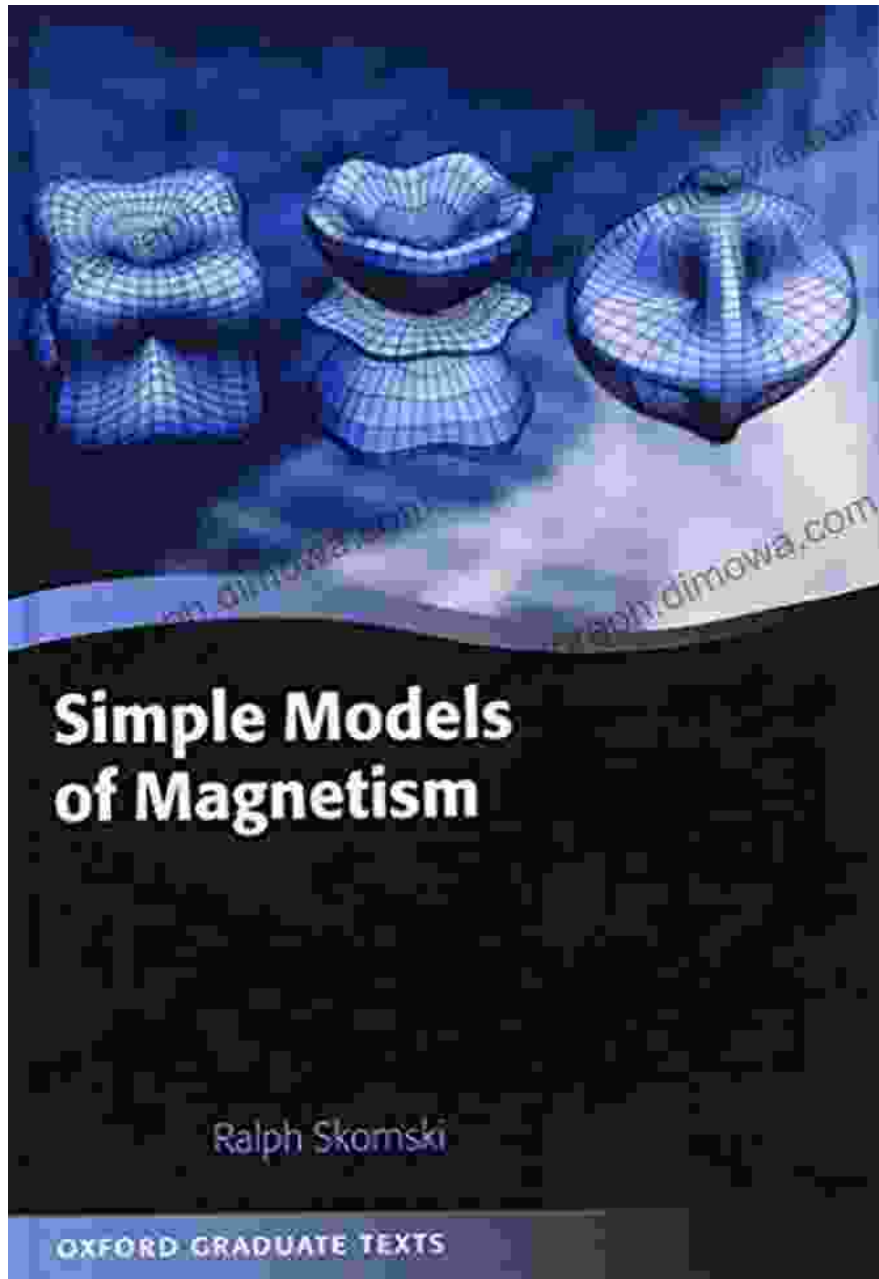


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About the Author

Dr. Stephen Blundell is a Professor of Physics at the University of Oxford. He is a leading expert in the field of magnetism, and he has published over 100 papers on the subject. Dr. Blundell is also the author of several textbooks on physics, including Concepts in Thermal Physics and Magnetism: From Fundamentals to Nanoscale Dynamics.

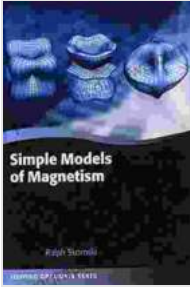
Reviews

"Simple Models of Magnetism is a clear and concise to the fundamental principles and applications of magnetism. It is written in a style that is accessible to both students and researchers, and it is illustrated with numerous examples and exercises. This book is a valuable resource for anyone who wants to learn more about magnetism."

- Professor David Awschalom, University of California, Santa Barbara

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- Professor Peter Schiffer, Yale University



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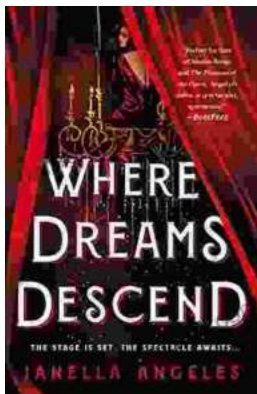
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