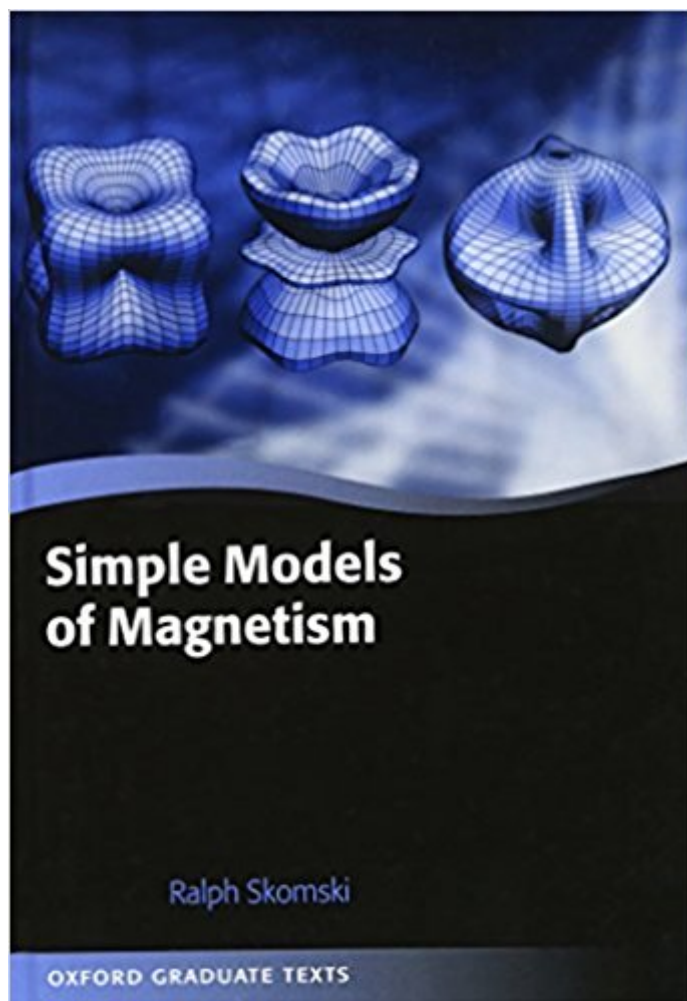


The book was found

# Simple Models Of Magnetism (Oxford Graduate Texts)



## Synopsis

For hundreds of years, models of magnetism have been pivotal in the understanding and advancement of science and technology, from the Earth's interpretation as a magnetic dipole to quantum mechanics, statistical physics, and modern nanotechnology. This book is the first to envision the field of magnetism in its entirety. It complements a rich literature on specific models of magnetism and provides an introduction to simple models, including some simple limits of complicated models. The book is written in an easily accessible style, with a limited amount of mathematics, and covers a wide range of quantum-mechanical, finite-temperature, micromagnetic and dynamical models. It deals not only with basic magnetic quantities, such as moment, Curie temperature, anisotropy, and coercivity, but also with modern areas such as nanomagnetism and spintronics, and with 'exotic' themes, as exemplified by the polymer analogy of magnetic phase transitions. Throughout the book, a sharp line is drawn between simple and simplistic models, and much space is devoted to discuss the merits and failures of the individual model approaches.

## Book Information

Series: Oxford Graduate Texts

Hardcover: 336 pages

Publisher: Oxford University Press; 1 edition (March 15, 2008)

Language: English

ISBN-10: 0198570759

ISBN-13: 978-0198570752

Product Dimensions: 9.8 x 0.9 x 6.6 inches

Shipping Weight: 1.8 pounds

Average Customer Review: 3.0 out of 5 stars 1 customer review

Best Sellers Rank: #931,623 in Books (See Top 100 in Books) #102 in Books > Science & Math > Physics > Electromagnetism > Magnetism #318 in Books > Science & Math > Physics > Solid-State Physics #993 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Materials Science

## Customer Reviews

'This is a highly readable and thorough account of models of magnetism, particularly applied to metallic magnets, that will be of great use to graduate students and experts in the field alike. The appendices are very thorough and contain a lot of helpful information, and the panels are well used. The exercises at the end of each chapter are short and pithy and a good addition.'

Stephen Blundell,

University of Oxford

Ralph Skomski Research Associate Professor Center for Materials Research and Analysis University of Nebraska 2002- present Research Associate Professor, University of Nebraska 1999-2002 Research Assistant Professor, University of Nebraska 1998 Visiting Assistant Professor, University of Nebraska 1995-1997 Postdoctoral Researcher, MPI für Mikrostrukturphysik, Halle 1991-1995 Postdoctoral Researcher, Trinity College, Dublin 1991 Ph.D., TU Dresden, Thesis "Theory of partially ordered magnetic solids" 1986 Dipl.-Phys., THLM Merseburg, Thesis: "Theory of the elasticity of polymer networks"

i would describe this book as a mixed blessing, the intention is great, unfortunately the execution falls a bit short. all the topics one would wish to be addressed are included, yet in most cases the treatment is simply missing depth & clarity in a way the book seems to be trying to cover too many subjects. the other important piece to note is that it requires a very solid understanding of the topics from the reader in order to follow this is definitely not an introductory book .. of course this is not a fault, merely an observation

[Download to continue reading...](#)

Simple Models of Magnetism (Oxford Graduate Texts) Matroid Theory (Oxford Graduate Texts in Mathematics) Riemann Surfaces (Oxford Graduate Texts in Mathematics) Riemannian Holonomy Groups and Calibrated Geometry (Oxford Graduate Texts in Mathematics) 4-Manifolds (Oxford Graduate Texts in Mathematics) Many-Body Quantum Theory in Condensed Matter Physics: An Introduction (Oxford Graduate Texts) Time-Dependent Density-Functional Theory: Concepts and Applications (Oxford Graduate Texts) Books of Breathing and Related Texts -Late Egyptian Religious Texts in the British Museum Vol.1 (Catalogue of the Books of the Dead and Other Religious Texts in the British Museum) A Student's Guide Through the Great Physics Texts: Volume III: Electricity, Magnetism and Light: 3 (Undergraduate Lecture Notes in Physics) Graduate Admissions Essays, Fourth Edition: Write Your Way into the Graduate School of Your Choice Graduate Admissions Essays: Write Your Way into the Graduate School of Your Choice Free Money for Graduate School: A Guide to More Than 1,000 Grants and Scholarships for Graduate Study How to Prepare for the GRE: Graduate Record Examination with CDROM (Barron's How to Prepare for the Gre Graduate Record Examination) Greenes' Guides to Educational Planning: Making It into A Top Graduate School: 10 Steps to Successful Graduate School Admission Insider's Guide to Graduate Programs in Clinical and Counseling Psychology: 2016/2017 Edition (Insider's

Guide to Graduate Programs in Clinical & Counseling Psychology) Magnetism in Condensed Matter (Oxford Master Series in Physics) Oxford Handbook of Political Psychology (Oxford Handbooks) published by Oxford University Press, USA (2003) The Theory of Magnetism Made Simple: An Introduction to Physical Concepts and to Some Useful mathematical methods Confidence: Gorilla Confidence - Simple Habits To Unleash Your Natural Inner Confidence (Self Esteem, Charisma, Personal Magnetism & Self Confidence) Transmission Electron Microscopy and Diffractometry of Materials (Graduate Texts in Physics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)