



# Magnetic Materials: Fundamentals and Applications

By Nicola A. Spaldin

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Magnetic Materials is an excellent introduction to the basics of magnetism, magnetic materials and their applications in modern device technologies. Retaining the concise style of the original, this edition has been thoroughly revised to address significant developments in the field, including the improved understanding of basic magnetic phenomena, new classes of materials, and changes to device paradigms. With homework problems, solutions to selected problems and a detailed list of references, Magnetic Materials continues to be the ideal book for a one-semester course and as a self-study guide for researchers new to the field. New to this edition:

- Entirely new chapters on Exchange Bias Coupling, Multiferroic and Magnetoelectric Materials, Magnetic Insulators
- Revised throughout, with substantial updates to the chapters on Magnetic Recording and Magnetic Semiconductors, incorporating the latest advances in the field
- New example problems with worked solutions

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#### Review

From the first edition: '... the book is a useful and compact addition to the bookshelf of anyone wishing to get a good up-to-date account of magnetic materials at the start of the 21st century.' *Materials World*

From the first edition: '... well written and hard to put down. It quickly takes the reader on an epic journey from the most basic principles of magnetism to the cutting edges of technology. Those who complete the odyssey will develop a coherent overview of magnetism and magnetic materials past, present, and future ... Spaldin captivates readers with her style which makes learning a pleasurable and effective experience.' *Physics Today*

'There is a reasonable balance between the fundamental physical concepts and practical applications ...' *The Times Higher Education Supplement*

#### About the Author

Nicola A. Spaldin is a Professor in the Materials Department at the University of California, Santa Barbara. She is an enthusiastic and effective teacher, with experience ranging from developing and managing the UCSB Integrative Graduate Training Program to answering elementary school students' questions online. Particularly renowned for her research in the area of multiferroics and magnoelectrics, her current research focuses on using electronic structure methods to design and understand materials that combine magnetism with additional functionalities. She was recently awarded the American Physical Society's McGroddy Prize for New Materials for this work. She is also active in research administration, directing the UCSB/National Science Foundation International Center for Materials Research.

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Exactly why? Because this *Magnetic Materials: Fundamentals and Applications* is an unordinary book that the inside of the reserve waiting for you to snap this but latter it will jolt you with the secret the item inside. Reading this book next to it was fantastic author who have write the book in such amazing way makes the content interior easier to understand, entertaining means but still convey the meaning thoroughly. So , it is good for you for not hesitating having this ever again or you going to regret it. This amazing book will give you a lot of rewards than the other book possess such as help improving your talent and your critical thinking way. So , still want to hold up having that book? If I were you I will go to the e-book store hurriedly.

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