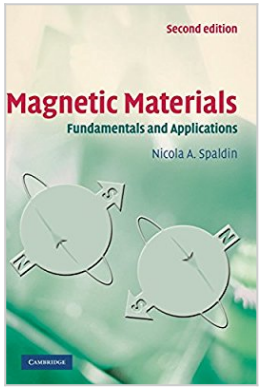


# Magnetic Materials: Fundamentals and Applications

*By Nicola A. Spaldin*



**Magnetic Materials: Fundamentals and Applications** By Nicola A. Spaldin

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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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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