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Nanomagnetism: Fundamentals and Applications is a complete guide to the theory and practical applications of magnetism at the nanometer scale. It covers a wide range of potential applications including materials science, medicine, and the environment. A tutorial covers the special magnetic properties of nanoscale systems in various environments, from free clusters to nanostructured materials. Subsequent chapters focus on the current state of research in theory and experiment in specific areas, and also include applications of nanoscale systems to synthesizing high-performance materials and devices.

- The only book on nanomagnetism to cover such a wide area of applications
- Includes a tutorial section that covers all the fundamental theory
- Serves as a comprehensive guide for people entering the field

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Editorial Review

About the Author

Chris Binns is Professor of Nanoscience at the Department of Physics and Astronomy, University of Leicester and head of the Condensed Matter Physics group. His research career has been in Surface Physics and Nanoscience and has included substantial programmes at central facilities. He is the author of the introductory textbook “Introduction to Nanoscience and Nanotechnology” published by Wiley.

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