



Object-Oriented Magnetic Resonance: Classes and Objects, Calculations and Computations

By Michael Mehring, Volker Achim Weberruss

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This book presents, for the first time, a unified treatment of the quantum mechanisms of magnetic resonance, including both nuclear magnetic resonance (NMR) and electron spin resonance (ESR). Magnetic resonance is perhaps the most advanced type of spectroscopy and it is applied in biology, chemistry, physics, material science, and medicine. If applied in conjunction with spectroscopy, the imaging version of magnetic resonance has no counterpart in any type of experimental technique.

The authors present explanations and applications from fundamental to advanced levels. Additionally, they pave the way to successfully simulating magnetic resonance phenomena numerically through an accompanying CD-ROM.

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- Sales Rank: #5715708 in Books
- Published on: 2001-06-27
- Original language: English
- Number of items: 1
- Dimensions: 1.50" h x 6.92" w x 9.92" l,
- Binding: Hardcover
- 555 pages

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Editorial Review

About the Author

Michael Mehring is the director of the Physikalische Institut at the Universität Stuttgart, Germany.

Volker Achim Weberruß is a freelance physicist, producer of scientific book software, and the author of several scientific books.

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