



Introduction to Molecular Magnetism: From Transition Metals to Lanthanides

By Cristiano Benelli, Dante Gatteschi

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This first introduction to the rapidly growing field of molecular magnetism is written with Masters and PhD students in mind, while postdocs and other newcomers will also find it an extremely useful guide.

Adopting a clear didactic approach, the authors cover the fundamental concepts, providing many examples and give an overview of the most important techniques and key applications. Although the focus is on lanthanide ions, thus reflecting the current research in the field, the principles and the methods equally apply to other systems.

The result is an excellent textbook from both a scientific and pedagogic point of view.

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Editorial Review

From the Back Cover

Magnets are versatile and found in many everyday items; even molecules themselves can act as tiny magnets. This book is an introduction to the rapidly growing field of molecular magnetism written with Masters and PhD students in mind, while postdocs and other newcomers will also find it an extremely useful guide.

Adopting a clear didactic approach, the authors cover the fundamental concepts, providing many examples and giving an overview of the most important techniques and key applications. Although the focus is on lanthanide ions, thus reflecting the current research in the field, the principles and the methods can easily be applied to other systems.

The result is an excellent textbook from both a scientific and pedagogic point of view.

About the Author

Dante Gatteschi is Professor of General and Inorganic Chemistry at the University of Florence since 1980. Before his professorship, he studied at the University of Florence and then obtained a position of Assistente with Professor Luigi Sacconi. His current research interests focus on molecular magnetism, including the design and synthesis of molecular magnetic materials as well as single-molecule magnets. He is on several editorial boards and has received many international awards. Currently he has over 600 publications.

Cristiano Benelli is Professor of Chemistry at the University of Florence. He has spent his whole academic career at the University of Florence, first as a student, then as Assistente with Professor Luigi Sacconi and Professor Ivano Bertini, before becoming Professor. His research interests include magnetic materials, low-dimensional systems as well as investigating spectroscopic and theoretical properties of transition metal complexes.

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