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Magnetochemistry





Synopsis

This is a book about things in magnetism that interest me. I think that these are important things which will interest a number of other chemists. The restriction is important, because it is difficult to write well about those things which are less familiar to an author. In general, the chemistry and physics of coordination compounds are what this book is about. Magnetochemistry is the study of the ground states of metal ions. When the ions are not interacting, then the study of single-ion phenomena is called paramagnetism. When the metal ions interact, then we are concerned with collective phenomena such as occur in long-range ordering. Several years ago, Hans van Duyneveldt and I published a book that explored these subjects in detail. Since that time, the field has grown tremendously, and there has been a need to bring the book up to date. Furthermore, I have felt that it would be useful to include more subsidiary material to make the work more useful as a textbook. This book is the result of those feelings of mine.

Book Information

Paperback: 328 pages Publisher: Springer; 1986 edition (December 6, 2011) Language: English ISBN-10: 3642707351 ISBN-13: 978-3642707353 Product Dimensions: 6.7 x 0.8 x 9.6 inches Shipping Weight: 1.5 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #2,547,845 in Books (See Top 100 in Books) #86 in Books > Science & Math > Chemistry > Physical & Theoretical > Electrochemistry #105 in Books > Science & Math > Chemistry > Electrochemistry #521 in Books > Science & Math > Chemistry > Inorganic

Customer Reviews

This book deals with the electronic structure of transition metal complexes as revealed by their magnetic properties. Paramagnetic phenomena are reviewed, but the emphasis throughout the book lies with magnetic ordering phenomena, in both low-dimensional systems as well as with systems undergoing long-range ordering. Field dependent properties are described, and percolation phenomena are introduced. Experimental procedures are also discussed.

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