



The Jahn-Teller Effect

By Isaac Bersuker

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Providing a general approach to understanding the properties of molecules and crystals and their origins, the Jahn-Teller effect is a fascinating phenomena in modern physics and chemistry. Its effect inspired one of the most important recent scientific discoveries--the concept of high-temperature superconductivity. This comprehensive volume presents the background of the theory and its key applications in physics and chemistry, as well as more recent achievements.

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Editorial Review

Review

Review of the hardback: '... provides a very logical, coherent, and generalized picture of the JTE at first hand ... extensive mathematical derivations are skillfully avoided ... perfectly organized from the pedagogical point of view ... contains rich and detailed subject and formula indexes ... Overall, the book is an invaluable contribution to the JTE field of study, and will be useful for scientists with a wide range of levels of expertise ... I am happy to have this book on my shelf.' *Angewandte Chemie International Edition*

Review of the hardback: 'The Jahn-Teller Effect ... completely satisfies the target goal to give an encyclopaedia of the fundamentals and applications of the JTE... can be recommended for graduate students as well as for confirmed researchers in molecular and solid-state sciences. I should suggest to any university library to buy this book.' *ChemPhysChem*

Review of the hardback: 'Bersuker is one of the most widely recognized authorities in the field of the JTE. In comparing this book with others on the JTE, it appears to be the broadest in subject, covering the most important elements of the fundamental theory of vibronic interactions in molecules and crystals and its applications in physics, chemistry, and biology ... Overall this book is a great contribution to the JTE field and a very serious contribution, i think, to science in general. it reflects the character of the author who has an encyclopedic view of physical and chemical problems, is interested in both fundamental concepts and new ideas, and is aggressively focused on new unsolved problems.' *Journal of the American Chemical Society*

About the Author

Isaac B. Bersuker is a senior research scientist and Adjunct Professor of Theoretical Chemistry at the University of Texas at Austin. His main scientific interest is in the theory of vibronic interactions and Jahn-Teller Effect with applications to solid state physics, chemistry, and biology. He is the author and co-author of 12 books, 25 major reviews and more than 300 original publications.

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