



## **Vibronic Interactions: Jahn-Teller Effect in Crystals and Molecules (Nato Science Series II:)**

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# Vibronic Interactions: Jahn-Teller Effect in Crystals and Molecules (Nato Science Series II:)

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This book is based mostly on the reports presented at the XVth International Jahn-Teller Symposium on Vibronic Interactions in Crystals and Molecules and NATO Advanced Research Workshop Colossal Magnetoresistance and Vibronic Interactions that took place at Boston on August 16-22 of the year 2000. This is the first time the Symposium took place in the USA where recently the giant splash of the attention to the Jahn-Teller effect occurred. This tremendous interest to the field all over the world is reflected not only in the numerous publications in many American and European journals, but of the leading scientists from additionally in the Symposium's participation the well known Universities, National Laboratories and industrial companies, which was the largest in the history of the Symposium. The renaissance of the Jahn-Teller physics is closely related to the three fundamental discoveries in science. The most significant among them is the discovery of high-T<sub>c</sub> superconductivity by K. -A. Muller and G. Bednorz, for whom the "Jahn-Teller idea" was the motivation in their search. The result of this search is well known - a wide spectrum of the Jahn-Teller ion based materials with T<sub>c</sub> between 24K and 135K were found. The second discovery is the existence of a new polymorph of carbon - the C<sub>60</sub>. The microscopic analysis of all physical, chemical and biological properties of the buckyballs is based on Jahn-Teller type of interactions. The third is colossal magnetoresistance.

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