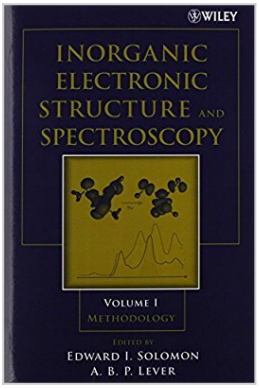


# Inorganic Electronic Structure and Spectroscopy, Inorganic Electronic Structure and Spectroscopy V1 Methodology and Inorganic Electronic Structure and ... Applications and Case Studies Set (v. 1 & 2)

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**Inorganic Electronic Structure and Spectroscopy, Inorganic Electronic Structure and Spectroscopy V1 Methodology and Inorganic Electronic Structure and ... Applications and Case Studies Set (v. 1 & 2)** From John Wiley & Sons

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This newly available paperbound edition of Inorganic Electronic Structure and Spectroscopy includes all the material from the original clothbound edition published in 1999. Consisting of articles contributed by outstanding scientists from around the world, Volume I, Methodology presents the state of the art in this field, written in a style accessible to the well-read senior undergraduate, and yet still of superior value to the senior researcher.
The first of a two-volume set, Volume I provides a thorough review of methodologies in transition metal spectroscopy and theoretical modeling, including:
* Electron Paramagnetic Resonance Spectroscopy
* IR, Raman, and Resonance Raman Spectroscopy
* Newer techniques used in inorganic chemistry, such as polarized absorption spectroscopy
* Luminescence spectroscopy
* Laser spectroscopy, X-ray and absorption spectroscopy, and EXAFS
* Three important chapters on traditional ligand field theory
This work assumes a basic understanding of quantum chemistry and group theory and reflects the current state of development for many of the techniques used by practicing inorganic chemists. Although written by multiple contributors, the editors' holistic approach to the manuscript has ensured a uniform presentation.

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Edward I. Solomon is a Monroe E. Spaght Professor of Chemistry at the Standford University Department of Chemistry. He received his BS in 1968 from Rensselaer University, and his Ph.D. in 1972 from Princeton University. His research emphasizes the detailed application of a wide variety of spectroscopic methods combined with molecular orbital calculations to probe the electronic structure of a transition metal complex and its relation to physical properties and reactivity. Three areas of physical-inorganic and bioinorganic chemistry are of general interest: chemical and spectroscopic studies of metalloprotein active sites, detailed spectroscopic and electronic structure studies of high symmetry transition metal complexes, and development of synchroton spectroscopies (at SSRL) to solve important problems in inorganic chemistry. Professor Solomon is an Alfred P. Sloan Foundation Fellow, 1976-79, an Associate Editor for "Inorganic Chemistry," and has received a number of other honors throughout his career.

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