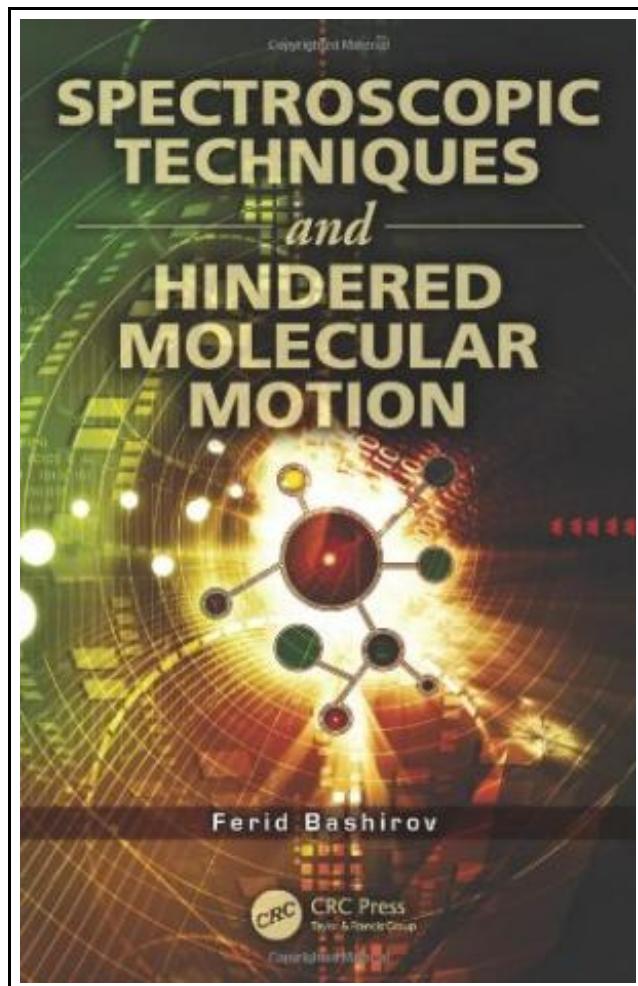


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CRC Press. Hardcover. Book Condition: New. Hardcover. 161 pages. Dimensions: 9.2in. x 6.1in. x 0.6in. Spectroscopic Techniques and Hindered Molecular Motion presents a unified, theoretical approach to studying classical local thermal motion of small molecules and molecular fragments in crystals by spectroscopic techniques. Mono- and polycrystalline case studies demonstrate performance validity. The book focuses on small molecules and molecular fragments, such as N<sub>2</sub>, HCl, CO<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>O, NH<sub>4</sub>, BeF<sub>4</sub>, NH<sub>3</sub>, CH<sub>2</sub>, CH<sub>3</sub>, C<sub>6</sub>H<sub>6</sub>, SF<sub>6</sub>, and other symmetrical atomic formations, which exhibit local hindered motion in molecular condensed media: molecular and ionic crystals, molecular liquids, liquid crystals, polymeric solids, and biological objects. It reviews the state of studying the hindered molecular motion (HMM) phenomenon and the experimental works on the basis of the latest theoretical research. Case Studies Physical models of hindered molecular motion General solution of the stochastic problem for the hindered molecular motion in crystals Formulae of the angular autocorrelation function symmetrized on the crystallographic point symmetry groups Formulae of the spectral line shapes concerning the dielectric, infrared, Raman, nuclear magnetic relaxation, and neutron scattering spectroscopy in the presence of the hindered molecular motion Experimental probation of the theoretical outcomes Proton relaxation in three-atomic molecular fragments undergoing axial symmetry hindered motion Structural distortion in the ordered phase of crystalline ammonium chloride Organic compounds, polymers, pharmaceutical products, and biological systems consist of the molecular fragments, which possess rotational or conformational degrees of freedom or an atomic exchange within the fragments. Liquid crystals present a menagerie of substances for which orientational ordering shows special significance. Knowledge of the laws of molecular motion stimulates growing new crystals and synthesizing new substances with the desired properties. Although this book does not exhaust all varieties of scientific and engineering problems, it is a fundamental and comprehensive resource and catalyst for further HMM research. This item...

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