Quantum Theory of Anharmonic Effects in Molecules

Description: Presented in a clear and straightforward analysis, this book explores quantum mechanics and the application of quantum mechanics to interpret spectral phenomena. Specifically, the book discusses the relation between spectral features in mid or rear infrared regions, or in Raman scattering spectrum, and interactions between molecules or molecular species such as molecular ions, and their respective motions in gaseous or crystalline conditions. Beginning with an overview of conventional methods and problems which arise in molecular spectroscopy, the second half of the book suggests original techniques to investigate the area. The treatment is based on rigorous quantum-mechanical theories and procedures that are readily implemented in either manual methods or with symbolic computational software.

- Offers a novel approach in its application to physical phenomena
- Concise and clear discussions of quantum-mechanical theories and spectrum analysis
- Provides both theories and applications

Contents:
1. The Laws of Quantum Mechanics
2. The Evolution of Perturbation Theory
3. Polynomials of Quantum Numbers
4. Effects of Anharmonicity
5. The Method of Factorization

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