

This is the first book on the subject written by a group of internationally renowned experts, whose contributions have been brought together in a unified manner. The book deals with various aspects of molecular motions and molecular interactions in dense fluids in so far as they affect spectral phenomena. Emphasis is placed on the experimental deduction of this information. Leading experts address the use of infrared and Raman vibrational spectroscopy, far infrared spectroscopy, nuclear magnetic resonance, light scattering, neutron scattering, molecular dynamics, collision induced spectra and molecular modelling in this context. A large number of examples are given, which are well supported by figures to clarify the methods and to demonstrate the degree of success (or failure) of various techniques. The bibliography is extensive, symbols are unified throughout, and keyword and compound indices are included. The book should be of interest to those entering this multidisciplinary field, and also to active researchers seeking a primer covering the breadth of the subject.

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J (continued); The Journal of Physical Chemistry A Â· The Journal of Physical Chemistry B . In this Account, we discuss our spectroscopic studies on the intermolecular Journal of Chemical Theory and Computation 13 (12), .. Dependent Solvent and Rotational Relaxation Dynamics of Coumarin in.

They show that theoretical polarizabilities deduced from self consistent field S. C. An, C. J. Montrose, and T. A. Litovitz, J. Chem. Phys. Spectroscopy and Relaxation of Molecular Liquids, Studies in Physical and Theoretical Chemistry, Vol.

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