



Introduction to Infrared and Raman Spectroscopy, Third Edition

Norman B. Colthup, Lawrence H. Daly, Stephen E. Wiberley

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Now in its third edition, this classic text covers many aspects of infrared and Raman spectroscopy that are critical to the chemist doing structural or compositional analysis. This work includes practical and theoretical approaches to spectral interpretation as well as a discussion of experimental techniques. Emphasis is given to group frequencies, which are studied in detailed discussions, extensive tables, and over 600 carefully chosen and interpreted spectral examples. Also featured is a unique treatment of group frequencies that stresses their mechanical origin. This qualitative approach to vibrational analysis helps to simplify spectral interpretation. Additional topics include basic instrumental components and sampling techniques, quantitative analysis, Raman polarization data, infrared gas contours, and polarized IR studies, among others.

Key Features

- * Focuses on group frequency correlations and how to use them in spectral interpretation
- * Revised and updated by a pioneer in the field, Norman Colthup, who for thirty years has served as an expert lecturer for the Fisk Infrared Institute
- * Explores new group frequency studies in aromatics, alkanes and olefins, among others
- * Includes completely updated section on instrumentation



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