



# Condensed-Phase Molecular Spectroscopy and Photophysics

*Anne Myers Kelley*

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# Condensed-Phase Molecular Spectroscopy and Photophysics

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**Condensed-Phase Molecular Spectroscopy and Photophysics** Anne Myers Kelley

**An introduction to one of the fundamental tools in chemical research—spectroscopy and photophysics in condensed-phase and extended systems**

A great deal of modern research in chemistry and materials science involves the interaction of radiation with condensed-phase systems such as molecules in liquids and solids as well as molecules in more complex media, molecular aggregates, metals, semiconductors, and composites. *Condensed-Phase Molecular Spectroscopy and Photophysics* was developed to fill the need for a textbook that introduces the basics of traditional molecular spectroscopy with a strong emphasis on condensed-phase systems. It also examines optical processes in extended systems such as metals, semiconductors, and conducting polymers, and addresses the unique optical properties of nanoscale systems.

*Condensed-Phase Molecular Spectroscopy and Photophysics* begins with an introduction to quantum mechanics that sets a solid foundation for understanding the text's subsequent topics, including:

- Electromagnetic radiation and radiation-matter interactions
- Molecular vibrations and infrared spectroscopy
- Electronic spectroscopy
- Photophysical processes and light scattering
- Nonlinear and pump-probe spectroscopies
- Electron transfer processes

Each chapter contains problems ranging from simple to complex, enabling readers to gradually build their skills and problem-solving abilities. Written for upper-level undergraduate and graduate courses in physical and materials chemistry, this text is uniquely designed to equip readers to solve a broad array of current problems and challenges in chemistry.

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