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Elements Of Inorganic Photochemistry



Synopsis

This monograph/reference focuses on those subjects that are considered essential to an understanding of inorganic photochemistry. Graduate students with a background in physical chemistry will find that the quantum mechanical treatments related to the principles of spectroscopy and chemical dynamics are readily accessible. And professionals will find that the tabulated data, equations, and general information makes this book an essential complement to the journal literature required in the daily planning of photochemical work. Chapters cover the nature of light and the uncertainty principle, detection of intermediates, elements of inorganic spectroscopy, kinetics of photoluminescence, photoredox reactions, ligand field photochemistry, and elements of organometallic photochemistry. Extensive appendixes cover physical constants and conversion factors for photochemical work, character tables for symmetry groups, vibrational motions, description of the chemical bonding in coordination complexes, charge transfer transitions, and Born cycles related to charge transfer processes.

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