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This textbook offers clear explanations of optical spectroscopic phenomena and shows how spectroscopic techniques are used in modern molecular and cellular biophysics and biochemistry. The topics covered include electronic and vibrational absorption, fluorescence, resonance energy transfer, exciton

This textbook offers clear explanations of the theory of optical spectroscopic phenomena and shows how these ideas are used in modern molecular and cellular biophysics and biochemistry.

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1 Introduction to Optical Spectroscopy Bene docet, qui bene distinguit (Horace) Good choices means good teaching 1.1 Overview The term Optical Spectroscopy (OS) in this book covers all types of qualitative and

spectroscopy, Nuclear spectroscopy and applications, Spectroscopic techniques in solid state physics, Florescence and phosphorescence, Atomic absorption spectroscopy, spectra of hydrogen atom, Mass spectroscopy, Infrared spectroscopy, Electron paramagnetic spectroscopy, X-ray spectroscopy, Raman

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