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Following a brief introduction, chapters explore classical mechanics, quantum mechanics, angular momentum, vibrational-rotational spectroscopy of a diatomic molecule, and polyatomic vibrational and rotational spectra. Additional topics include particles encountering potentials, atomic structure and spectroscopy, molecular electronic structure and spectra, magnetic resonance spectroscopy, and atomic and molecular properties. Helpful appendixes offer background on matrix algebra and matrix eigenvalue methods as well as a table of integrals and a table of atomic masses and nuclear spins.

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