



# Optical Polarization of Molecules (Cambridge Monographs on Atomic, Molecular and Chemical Physics)

*Marcis Auzinsh, Ruvin Ferber*

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## Optical Polarization of Molecules (Cambridge Monographs on Atomic, Molecular and Chemical Physics) Marcis Auzinsh, Ruvin Ferber

This book explains the theory and methods by which gas molecules can be polarized by light, a subject of considerable importance for what it tells us about the electronic structure of molecules and properties of chemical reactions. Starting with a brief review of molecular angular momentum, the text goes on to consider resonant absorption, fluorescence, photodissociation and photoionization, as well as collisions and static fields. A variety of macroscopic effects are considered, among them angular distribution and the polarization of emitted light, ground state depopulation, laser-induced dichroism, the effect of collisions and external magnetic and electric field effects. Most examples in the book are for diatomic molecules, but symmetric-top polyatomic molecules are also included. The book concludes with a short appendix of essential formulae, tables for vector calculus, spherical functions, Wigner rotation matrices, Clebsch-Gordan coefficients, and methods for expansion over irreducible tensors.



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