

**W**ritten by a distinguished plasma scientist and experienced author, this up-to-date work comprehensively covers current methods and new developments and techniques, including non-equilibrium atomic and molecular plasma states, as well as such new applications as gas lasers. It contains numerous appendices with reference data indispensable for plasma spectroscopy, such as statistical weights and partition sums and diatomic molecules. This book will be a valuable source of information for plasmaphysicists, spectroscopists, materials scientists and physical chemists.

**From the Contents:**

- Plasma as an Object of Spectroscopy
- Basic Concepts and Parameters Associated with the Emission, Absorption and Scattering of Light by Plasma
- Emission, Absorption and Scattering Techniques for Determining the Densities of Particles in Discrete Energy States
- Intensities in Spectra and Plasma Energy Distribution in the Internal and Translational Degrees of Freedom of Atoms and Molecules
- Measuring Concentrations of Atoms and Molecules
- Spectral Methods of Determining Electronic and Magnetic Fields in Plasma
- Determination of the Parameters of the Electronic Component of Plasma
- Some Information on Spectroscopy Techniques

Please find a further chapter 'Optical Constants of Materials' on  
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