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| Autore                  | Ochkin V. N (Vladimir Nikolaevich)   |
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| Nota di contenuto       | Spectroscopy of Low Temperature Plasma; Contents; Preface; 1 Plasma as an Object of Spectroscopy; 2 Basic Concepts and Parameters Associated with the Emission, Absorption and Scattering of Light by Plasma; 3 Emission, Absorption and Scattering Techniques for Determining the Densities of Particles in Discrete Energy States; 4 Intensities in Spectra and Plasma Energy Distribution in the Internal and Translational Degrees of Freedom of Atoms and Molecules; 5 Measuring Concentrations of Atoms and Molecules; 6 Spectral Methods of Determining Electronic and Magnetic Fields in Plasma 7 Determination of the Parameters of the Electronic Component of Plasma8 Some Information on Spectroscopy Techniques; Appendix A Statistical Weights and Statistical Sums; Appendix B Conversion of Quantities Used to Describe Optical Transition Probabilities in Line Spectra; Appendix C Two-Photon Absorption Cross Sections for Some Atoms and Molecules in the Ground State; Appendix D Information on Some Diatomic Molecules for the Identification and Processing of Low-Temperature Plasma Spectra<br>Appendix E Rotational Line Intensity Factors in the Electronic-Vibrational Transition Spectra of Diatomic MoleculesAppendix F |

Sommario/riassunto

Written 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. Containing numerous appendices with reference data indispensable for plasma spectroscopy, such as statistical weights and partition sums and diatomic molecules. For plasmaphysicists, spectroscopists, materials scientists and physical chemists. Appendix H is only available online.

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