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Nota di contenuto	Preface; Contents; Introduction; I Classical Dynamics; II The Quantum Phenomena in Microspheres; III Numerical Methods and Object-Oriented Approach to the Problems of Multilayered Microsystems; Appendix A: Calculation of Field's Energy in a Sphere; Appendix B: Calculation of Surface Integral; Appendix C: Continuity of Tangential Fields; Appendix D: Integral on Bessel Functions; Appendix E: Surface Integrals for Dipole; Appendix F: Some Mathematical Formulas; Appendix G: Various Head *.h Files; Bibliography; Index
Sommario/riassunto	In this book, the issues regarding the theory of optics and quantum optics of spherical multilayered systems are studied. In such systems the spatial scale of layers becomes comparable with the wavelength of radiation, which complicates the analysis of important quantities such as reflectivity and transmission.