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Nota di contenuto

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2. Plasmon modes in circular cross-section nanotubes3. Plasmon modes in two adjacent circular cross-section nanowires; 4. Plasmon modes in eccentric nanotubes; 5. Plasmon modes in nanowires of elliptical cross sections; 6. Plasmon modes in spherical nanoparticles; 7. Plasmon modes in spherical nanoshells; 8. Plasmon modes in ellipsoidal nanoparticles; 9. Plasmon modes in ellipsoidal nanoshells; 10. Plasmon modes in toroidal nano-rings; 11. Plasmon modes in two adjacent spherical nanoparticles; 12. Plasmon modes in infinite flat structures
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10. Plasmon modes in gold nanocylinders (nanodisks) on a dielectric substrate11. Plasmon modes in a triangular prism; 12. Plasmon modes in nanoshells; 3.4 Universal Numerical Technique for the Solution of Boundary Integral Equations; 3.5 Absorbing Boundary Conditions for Finite-Difference Time- Domain Analysis of Scattering Problems; References; 4 Radiation Corrections, Excitation of Plasmon Modes and Selective Applications; 4.1 Perturbation Technique; 4.2 First- and Second-Order Radiation Corrections; 4.3 Analysis of Extinction Cross Section
4.4 Coupling of Plasmon Modes to Incident Radiation, Time-Dynamics of Their Excitation and Dephasing4.5 Selective Applications of Plasmon Resonances; 4.5.1 Plasmon Resonance Enhancement of Faraday Rotation in Garnet Films; 4.5.2 Application of Plasmon Resonances to Heat-Assisted Magnetic Recording; 4.5.3 Application of Plasmon Resonances to All-Optical Magnetic Recording; 4.5.4 SERS and Plasmon Resonances; 4.5.5 Ball Lightning; 4.5.6 Optical Controllability of Plasmon Resonances; References; Index

Sommario/riassunto

This unique volume provides a broad introduction to plasmon resonances in nanoparticles and their novel applications. Here, plasmon resonances are treated as an eigenvalue problem for specific boundary integral equations and general physical properties of plasmon spectrum are studied in detail. The coupling of incident radiation to specific plasmon modes, the time dynamics of their excitation and dephasing are also analytically treated. Finally, the applications of plasmon resonances to SERS, light controllability (gating) of plasmon resonances in semiconductor nanoparticles, the use of plasmo