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Nota di contenuto	1. Introductory Chapter: Recent Advances in Plasmas Physics -- 2. Plasma Waves and Rayleigh-Taylor Instability: Theory and Application -- 3. Various Aspects of Dust-Acoustic Solitary Waves (DAWs) in Inhomogeneous Plasmas -- 4. A Summary of the Introduction and Importance of Quantum Plasmas -- 5. Particle Acceleration in the Venus Plasma Wake -- 6. Design and Analysis of High Power RF Window -- 7. Reconfigurable Antennas Based on Plasma Reflectors and Cylindrical Slotted Waveguide.
Sommario/riassunto	This book serves as a comprehensive guide for research scholars and postgraduate students in the field of plasma physics. It discusses Rayleigh-Taylor instabilities, solitary waves, quantum plasma, design of radiofrequency (RF) windows, use of a gyrotron in plasma physics, non-equilibrium plasma modeling, space plasma applications, and plasma diagnostics. The book also explores linear and nonlinear waves in a plasma medium.