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2. Record Nr.	UNINA9911015871603321
Autore	Matsushita Teruo
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Nota di contenuto	Part I Static Electric Phenomena -- Electrostatic Field -- Conductors -- Conductor System in Vacuum -- Dielectric Materials -- Steady Current -- Part II Static Magnetic Phenomena -- Current and Magnetic Flux Density -- Superconductors -- Current Systems -- Magnetic Materials -- Part III Time- Dependent Electromagnetic Phenomena -- Electromagnetic Induction -- Displacement Current and Maxwell's Equations -- Electromagnetic Wave.
Sommario/riassunto	This comprehensive textbook covers electricity and magnetism in great depth, with the 3rd edition offering updated descriptions of electromagnetic phenomena to help students achieve a more thorough understanding of the subject. In the 1st edition, superconductivity was emphasized, a focus that continued in the 2nd edition, which strengthened the E-B analogy by comparing equipotential surfaces in electricity to equivector potential surfaces in magnetism. The 3rd edition introduces the concept of mean magnetic flux, which aids in determining inductance from magnetic energy. It also demonstrates how vector potential can be directly used to calculate electromotive force. A unique phenomenon is presented when applying current to a superconducting transmission line, where the induced electric field's vector potential is perpendicular to the current. This deviation from common equations can still be explained through Maxwell's theory, leading to the correct solution. For a more in-depth grasp of electricity and magnetism, students are encouraged to use Exercises in Electricity and Magnetism by the same author, which offers 400 practice problems. This textbook is ideal for advanced students of physics, astrophysics, or engineering, as well as a valuable reference for professional scientists.