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Edizione	[1st edition]
Descrizione fisica	1 online resource (562 p.)
Collana	ISTE
Disciplina	537
Soggetti	Electromagnetism Maxwell equations Electromagnetic waves Field emission
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Electrostatics in vacuum -- Conductors and currents -- Dielectrics -- Special techniques and approximation methods -- Magnetic field -- Magnetism in matter -- Induction -- Maxwell's equations -- Electromagnetic waves -- Reflection, interference, diffraction and diffusion -- Guided waves -- Special relativity and electrodynamics -- Motion of charged particles in an electromagnetic field -- Emission of radiation.
Sommario/riassunto	This book deals with electromagnetic theory and its applications at the level of a senior-level undergraduate course for science and engineering. The basic concepts and mathematical analysis are clearly developed and the important applications are analyzed. Each chapter

contains numerous problems ranging in difficulty from simple applications to challenging. The answers for the problems are given at the end of the book. Some chapters which open doors to more advanced topics, such as wave theory, special relativity, emission of radiation by charges and antennas, are included. The materi
