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Autore	Frezza Fabrizio
Titolo	A Primer on Electromagnetic Fields [[electronic resource] /] / by Fabrizio Frezza
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ISBN	3-319-16574-7
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (177 p.)
Disciplina	530.15 535.2 537.6 620 621.3
Soggetti	Microwaves Optical engineering Optics Electrodynamics Mathematical physics Microwaves, RF and Optical Engineering Classical Electrodynamics Mathematical Physics
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	Fundamental theorems and equations of electromagnetism -- Properties of plane electromagnetic waves -- Introduction to transmission lines -- Guided electromagnetic propagation -- Green's functions.
Sommario/riassunto	This book is a concise introduction to electromagnetics and electromagnetic fields that covers the aspects of most significance for engineering applications by means of a rigorous, analytical treatment. After an introduction to equations and basic theorems, topics of fundamental theoretical and applicative importance, including plane waves, transmission lines, waveguides, and Green's functions, are

discussed in a deliberately general way. Care has been taken to ensure that the text is readily accessible and self-consistent, with conservation of the intermediate steps in the analytical derivations. The book offers the reader a clear, succinct course in basic electromagnetic theory. It will also be a useful lookup tool for students and designers.
