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| 1. Record Nr.           | UNINA9910299817603321  |
| Autore                  | Frezza Fabrizio  |
| Titolo                  | A Primer on Electromagnetic Fields / / by Fabrizio Frezza  |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015  |
| ISBN                    | 3-319-16574-7  |
| Edizione                | [1st ed. 2015.]  |
| Descrizione fisica      | 1 online resource (177 p.)   |
| Disciplina              | 530.15<br>535.2<br>537.6<br>620<br>621.3   |
| Soggetti                | Microwaves<br>Optical engineering<br>Optics<br>Electrodynamics<br>Mathematical physics<br>Microwaves, RF and Optical Engineering<br>Classical Electrodynamics<br>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.

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