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ISBN	1-119-94521-6 1-283-44632-4 9786613446329 1-119-94475-9 1-119-94474-0
Descrizione fisica	1 online resource (282 p.)
Disciplina	621.382/4 621.3824
Soggetti	Antennas (Electronics)
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	Introduction -- Antenna system-level performance parameters -- Vector analysis -- Radiated fields -- Dipole antennas -- Loop antennas -- Aperture antennas -- Array antennas.
Sommario/riassunto	This book offers an in-depth coverage of fundamental antenna theory, and shows how to apply this in practice. The author discusses electromagnetic radiation and antenna characteristics such as impedance, radiation pattern, polarization, gain and efficiency. In addition, the book provides readers with the necessary tools for analyzing complex antennas and for designing new ones. Furthermore, a refresher chapter on vector algebra, including gradient, divergence and curl operation is included. Throughout the book ample examples of employing the derived theory are given and all chapters are concluded with problems, giving the reader the opportunity to test his/her acquired knowledge. Key Features: -- Covers the mathematical and physical background that is needed to understand electromagnetic radiation and antennas. -- Discusses the origin of radiation and provides an in-depth explanation of antenna parameters. -- Explores

all the necessary steps in antenna analysis allowing the reader to understand and analyze new antenna structures. -- Contains a chapter on vector algebra, which is often a stumbling block for learners in this field.-- Includes examples and a list of problems at the end of each chapter. -- Accompanied by a website containing solutions to the problems (for instructors) and CST modeling files ([www.wiley.com/go/visser--antennas](http://www.wiley.com/go/visser--antennas)). This book will serve as an invaluable reference for advanced (last year Bsc, Msc) students in antenna and RF engineering, wireless communications, electrical engineering, radio engineers and other professionals needing a reference on antenna theory. It will also be of interest to advanced/senior radio engineers, designers and developers.

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