1. Record Nr. UNINA9910813373003321

Autore	Sarkar Tapan (Tapan K.)
Titolo	Physics of multiantenna systems and broadband processing / / Tapan K. Sarkar, Magdalena Salazar-Palma, Eric L. Mokole ; with contributions from: Santana Burintramart ... [et al.]
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, c2008
ISBN	9786611732530 9781281732538 1281732532 9780470289242 0470289244 9780470289235 0470289236
Edizione	[1st ed.]
Descrizione fisica	1 online resource (589 p.)
Collana	Wiley series in microwave and optical engineering
Altri autori (Persone)	Salazar-PalmaMagdalena MokoleEric L BurintramartSantana
Disciplina	621.384/135
Soggetti	Antenna arrays - Mathematical models MIMO systems - Mathematical models Broadband communication systems - Mathematical models
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	Physics of Multiantenna Systems and Broadband Processing; Contents; Preface; Acknowledgments; Chapter 1 What Is an Antenna and How Does It Work?; 1.0 Summary; 1.1 Historical Overview of Maxwell's Equations; 1.2 Review of Maxwell-Heaviside-Hertz Equations; 1.2.1 Faraday's Law; 1.2.2 Generalized Ampere's Law; 1.2.3 Generalized Gauss's Law of Electrostatics; 1.2.4 Generalized Gauss's Law of Magnetostatics; 1.2.5 Equation of Continuity; 1.3 Solution of Maxwell's Equations; 1.4 Radiation and Reception Properties of a Point Source Antenna in Frequency and in Time Domain 1.4.1 Radiation of Fields from Point Sources1.4.1.1 Far Field in Frequency Domain of a Point Radiator; 1.4.1.2 Far Field in Time Domain

Sommario/riassunto

An analysis of the physics of multiantenna systems Multiple-Input Multiple-Output (MIMO) technology is one of the current hot topics in emerging wireless technologies. This book fills the important need for an authoritative reference on the merits of MIMO systems based on physics and provides a sound theoretical basis for its practical implementation. The book also addresses the important issues related to broadband adaptive processing. Written by three internationally known researchers, Physics of Multiantenna Systems and Broadband Processing: Provides a thorough discussion of t