

1. Record Nr.	UNINA9910677492803321
Autore	Haupt Randy L.
Titolo	Antenna arrays : a computational approach / / Randy L. Haupt
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley-IEEE Press, , c2010 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2010]
ISBN	1-282-81723-X 9786612817236 0-470-93743-2 0-470-93746-7
Edizione	[1st edition]
Descrizione fisica	1 online resource (550 p.)
Disciplina	621.382/4 621.3824
Soggetti	Antenna arrays - Mathematical models 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	Front Matter -- Antenna Array Basics -- Array Factor Analysis -- Linear and Planar Array Factor Synthesis -- Array Factors and Element Patterns -- Nonplanar Arrays -- Mutual Coupling -- Array Beamforming Networks -- Smart Arrays -- Index.
Sommario/riassunto	This book covers a wide range of antenna array topics that are becoming increasingly important in wireless applications, particularly in design and computer modeling. Signal processing and numerical modeling algorithms are explored, and MATLAB computer codes are provided for many of the design examples. Pictures of antenna arrays and components provided by industry and government sources are presented with explanations of how they work. Antenna Arrays is a valuable reference for practicing engineers and scientists in wireless communications, radar, and remote sensing, and an excellent textbook for advanced antenna courses.