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Antenna Theory And Design

H. Paul Williams



Antenna Theory And Design:

Antenna Theory and Design Warren L. Stutzman, Gary A. Thiele, 2012-05-22 Stutzman's 3rd edition of Antenna Theory and Design provides a more pedagogical approach with a greater emphasis on computational methods. New features include additional modern material to make the text more exciting and relevant to practicing engineers, new chapters on systems, low profile elements and base station antennas, organizational changes to improve understanding, more details to selected important topics such as microstrip antennas and arrays and expanded measurements topic. *Microwave Antenna Theory and Design* Samuel Silver, 1984 This book covers the basic principles and fundamental microwave antenna types and techniques. **Antenna Theory and Design** H. Paul Williams, 1950 Microstrip Antenna J. R. James, Peter S. Hall, Colin Wood, 1986 In the past few years the concept of creating microwave antennas using microstrip has attracted increasing attention and viable practical designs are now emerging. The purpose of this monograph is to present the reader with an appreciation of the underlying physical action, up to date theoretical treatments, useful antenna design approaches and the overall state of the art situation. The emphasis is on antenna engineering design but to achieve this goal it has been necessary to delve into the behaviour of microstrip in a much wider sense and also include aspects of electromagnetic analysis. As a consequence the monograph will also be of interest to microstrip circuit designers and to some extent those seeking electromagnetic problems of a challenging nature. The astronomical progress in miniaturising and integrating electronic circuits in the past decade has recently created a positive demand for a new generation of antenna systems. In principle microstrip antennas are thin planar configurations that are lightweight, low cost, easy to manufacture and can be made conformal with the surfaces of vehicles, missiles etc. The compatibility of microstrip antennas with integrated electronics is another great advantage. However the microstrip wavetrapping effects inhibit the radiation mechanism and must be taken into account in antenna design. Wave trapping effects in substrates involve the study of surface waves and discontinuities in open waveguide structures. The microstrip antenna designer must therefore encompass many more effects than previously considered by microstrip circuit designers. It is for these reasons that the scope of this monograph is necessarily somewhat wider than the title may suggest. The ten chapters are a blend of introductory practical and theoretical treatments and likely future developments are also highlighted. A good selection of past and current references are given and each chapter concludes with a helpful summary comment. Antenna Theory and Design Stratman Elliott, 1985 **Antenna Theory** Constantine A. Balanis, 1982-04-15 The Latest Resource for the Study of Antenna Theory In a discipline that has experienced vast technological changes this text offers the most recent look at all the necessary topics. Highlights include New coverage of microstrip antennas provides information essential to a wide variety of practical designs of rectangular and circular patches including computer programs. Applications of Fourier transform spectral method to antenna radiation. Updated material on moment methods, radar cross section, mutual impedances, aperture and horn antennas, compact range designs and

antenna measurements A New Emphasis on Design Balanis features a tremendous increase in design procedures and equations This presents a solid solution to the challenge of meeting real life situations faced by engineers Computer programs contained in the book and accompanying software have been developed to help engineers analyze design and visualize the radiation characteristics of antennas **Antenna Theory and Design** H.P. Williams,1966 Antenna Theory and Design: Foundations of antenna theory H. Paul Williams,1950 **Antenna Theory and Design** Herbert Paul Williams,1950 *Antenna Theory and Design, Volume 1* H. Paul Williams,1950

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