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all based on sound theory and proven in the field. These designs

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universally use basic tools and inexpensive components and do not require special skill to construct. This antenna design is an ...

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Rectennas (short for rectifying antennas) consist of two parts ... While such behaviour had been predicted in theory, it had not previously been observed experimentally. To produce it, the researchers ...

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Our goal is to leverage our outstanding design capabilities to achieve the smallest, lowest cost, and best performing ICs for the mmW 5G, Active Antenna, RADAR, SATCOM, and point-to-point

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The iPhone 4's design is somewhat unique in that Apple is using the multi-part stainless steel band that runs around the device as a pair of antennas-- hopefully this will alleviate some of the ...

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This WiFi 6E Router Proves Next-Gen Connectivity Is Just Too Expensive

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A practical book written for engineers who design and use antennas. The author has many years of hands on experience designing antennas that were used in such applications as the Venus and Mars missions of NASA. The book covers all important topics of modern antenna design for communications. Numerical methods will be included but only as much as are needed for practical applications.

Describes how to systematically implement various characteristic mode (CM) theories into designs of practical antenna systems. This book examines both theoretical developments of characteristic modes (CMs) and practical developments of CM-based methodologies for a variety of critical antenna designs. The book is divided into six chapters. Chapter 1 provides an introduction and discusses the recent advances of the CM theory and its applications.

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in antenna engineering. Chapter 2 describes the formulation of the characteristic mode theory for perfectly electrically conducting (PEC) bodies and discusses its numerical implementations. Chapter 3 presents the CM theory for PEC structures embedded in multilayered medium and its applications. Chapter 4 covers recent advances in CM theory for dielectric bodies and also their applications. Chapter 5 discusses the CM theory for N-port networks and its applications to the design of antenna arrays. Finally, Chapter 6 discusses the design of platform-integrated antenna systems using characteristic modes. This book features the following: Introduces characteristic mode theories for various electromagnetic structures including PEC bodies, structures in multilayered medium, dielectric bodies, and N-port networks Examines CM applications in electrically small antennas, microstrip

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patch antennas, dielectric resonator antennas, multiport antennas, antenna arrays, and platform mounted antenna systems Discusses numerical algorithms for the implementation of the characteristic mode theories in computer code Characteristic Modes: Theory and Applications in Antenna Engineering will help antenna researchers, engineers, and students find new solutions for their antenna design challenges.

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Data and models for better systems design Atmospheric gases, building materials, the weather The propagation of wireless communications signals depends upon a whole range of factors, any or all of which can have a significant impact on the quality of a signal. Data generated by careful measurement of signals propagating under various envir

Highly respected authors have reunited to update the well known 1981 edition which is still hailed as one of the best in its field. This edition includes recent antenna innovations and applications. It features a succinct treatment of the finite difference, time domain (FDTD) computational technique. It is also the first text to treat physical theory of diffraction (PTD).

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