

NVIS ANTENNA THEORY AND DESIGN

Introduction

A properly designed Near Vertical Incident Skywave (NVIS) antenna will have a directivity pattern that will maximize transmission and reception at high angles while rejecting low angle, long range noise. Further, this antenna must be tunable over at least one octave of frequency to track the local Critical Frequency (CF). The required directivity pattern is shown in Figure 1.

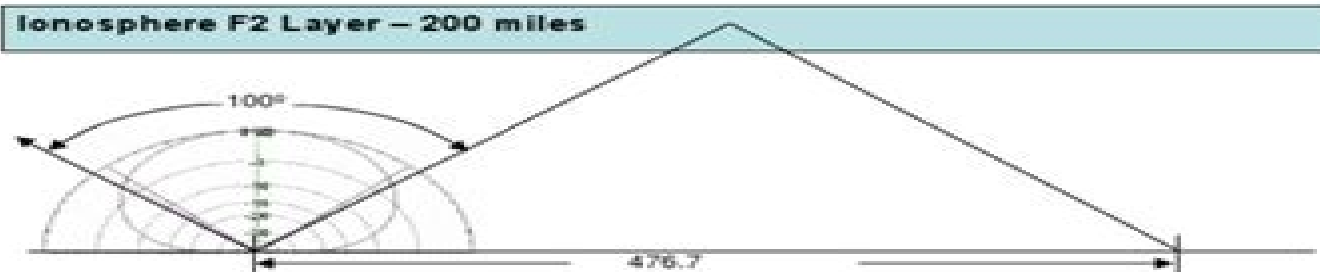


Figure 1: Required NVIS Antenna Vertical Directivity Pattern

The vertical or elevation directivity pattern should have a beam width (-3dB) of approximately 100° and the horizontal or azimuth directivity pattern should be omnidirectional. The three-dimensional pattern should look like a toy balloon with the filler at the bottom.

NVIS Noise Reduction

As we have all noticed, the most prevalent noise is long-range lightning from thunderstorm activity in the surrounding states. During summer evening nets, after D-layer absorption has dropped, thunderstorms, several states away can disturb Texas Army MARS nets. The "south-of-the-border" interference also falls into this category. There is little we can do about local thunderstorm noise, but a properly designed NVIS antenna can reduce the distant noise. An Australian scientist, C.J. Coleman, measured the noise directivity at both Alice Springs, Australia and in South England (C.J. Coleman, The Directionality Of Atmospheric Noise And Its Impact Upon An HF Receiving System, HF Radio Systems and Techniques, Conference Publication No. 473 IEE 2000). The results of this study are shown in Figures 2 and 3. The horizontal direction, azimuth, of the noise is displayed around the circle with North being towards the top of the page. The vertical angle, elevation, is depicted as the radial distance from the center with the center of the circle being 90° or overhead. Each dotted-line circle represents 30° of elevation.

Nvis Antenna Theory And Design

John Volakis



Nvis Antenna Theory And Design:

Characteristic Modes Yikai Chen, Chao-Fu Wang, 2015-06-15 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 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 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 Eighth International Conference on HF Radio Systems and Techniques, 10-13 July 2000, Venue University of Surrey, Guildford, UK Institution of Electrical Engineers, 2000 This volume contains the proceedings of the Eighth International Conference on HF Radio Systems and Techniques There are 72 papers altogether *Antenna Engineering Handbook, Fourth Edition* John Volakis, 2007-06-07 This edition contains 21 new chapters and a bonus eight page color insert and new material on specialty antennas such as wideband patch antennas antenna arrays smart antennas and more **Printed Antennas for Wireless Communications** Rod Waterhouse, 2008-03-11 Printed antennas also known as microstrip antennas have a variety of beneficial properties including mechanical durability conformability compactness and cheap manufacturing costs As such they have a range of applications in both the military and commercial sectors and are often mounted on the exterior of aircraft and spacecraft as well as incorporated into mobile radio communication devices *Printed Antennas for Wireless Communications* offers a practical guide to state of the art printed antenna technology used for wireless systems Contributions from renowned global experts within both academia and industry enable the reader to design printed antennas and associated technologies and offer valuable insights into important breakthroughs in these areas Divided into 3 sections covering fundamental wideband printed radiating elements for wireless systems small printed antennas for wireless systems and advanced concepts and applications in wireless systems Provides experimental data and applies theoretical models to

present design performance trends and to give the reader an in depth coverage of the area Presents summaries of different approaches used in solving wireless systems such as WPAN wireless personal area network and MIMO multi input multi output offering the reader an overall perspective of the pros and cons of each Focuses on practical design examples and real world solutions Printed Antennas for Wireless Communications offers an excellent insight on printed antennas from the theoretical to the practical hence it will appeal to practicing design engineers within commercial and governmental military organisations as well as postgraduate students and researchers in communications technology U.S. Army Field Manual 7-93 Long-Range Surveillance Unit Operations United States Army,2022-05-29 U S Army Field Manual 7 93 Long Range Surveillance Unit Operations is a comprehensive guide that delves into the operational procedures essential for the effective functioning of Long Range Surveillance LRS units This manual provides a meticulous examination of surveillance techniques reconnaissance strategies and the tactical integration necessary for executing successful missions in a variety of terrains and environments Written with precision it employs a clear and authoritative style that is characteristic of military doctrine ensuring that complex concepts are accessible to both seasoned personnel and new recruits Set within the broader context of modern military operations this manual addresses the evolving nature of warfare placing significant emphasis on adaptability and inter unit collaboration in the field The authorship of this manual reflects the collective expertise of military strategists and practitioners who understand the unique challenges faced by surveillance units The U S Army known for its rigorous training and commitment to operational excellence has synthesized best practices informed by both historical precedents and contemporary warfare dynamics This background underscores the importance of LRS operations in both peacetime and combat scenarios emphasizing the persistent need for intelligence gathering methods that inform decision making processes This manual is an indispensable resource for military personnel defense analysts and scholars interested in contemporary military operations and intelligence methodologies Its detailed guidance not only prepares soldiers for long range missions but also equips them with the critical thinking skills to adapt to the complexities of modern warfare Whether for training purposes or strategic planning U S Army Field Manual 7 93 is essential reading for anyone involved in or studying military operations **Amateur Radio** ,1997-07 CQ ,1997 Electrical & Electronics Abstracts ,1994 **Advisory Group for Aerospace Research and Development Index of Publications** North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development,1987 **International Aerospace Abstracts** ,1998 Antenna Theory Constantine A. Balanis,2016-02-01 Updated with color and gray scale illustrations a companion website housing supplementary material and new sections covering recent developments in antenna analysis and design This book introduces the fundamental principles of antenna theory and explains how to apply them to the analysis design and measurements of antennas Due to the variety of methods of analysis and design and the different antenna structures available the applications covered in this book are made to some of the most basic and practical antenna configurations Among these antenna configurations are linear

dipoles loops arrays broadband antennas aperture antennas horns microstrip antennas and reflector antennas The text contains sufficient mathematical detail to enable undergraduate and beginning graduate students in electrical engineering and physics to follow the flow of analysis and design Readers should have a basic knowledge of undergraduate electromagnetic theory including Maxwell's equations and the wave equation introductory physics and differential and integral calculus Presents new sections on flexible and conformal bowtie Vivaldi antenna antenna miniaturization antennas for mobile communications dielectric resonator antennas and scale modeling Provides color and gray scale figures and illustrations to better depict antenna radiation characteristics Includes access to a companion website housing MATLAB programs Java based applets and animations Power Point notes Java based interactive questionnaires and a solutions manual for instructors Introduces over 100 additional end of chapter problems Antenna Theory Analysis and Design Fourth Edition is designed to meet the needs of senior undergraduate and beginning graduate level students in electrical engineering and physics as well as practicing engineers and antenna designers Constantine A Balanis received his BSEE degree from the Virginia Tech in 1964 his MEE degree from the University of Virginia in 1966 his PhD in Electrical Engineering from The Ohio State University in 1969 and an Honorary Doctorate from the Aristotle University of Thessaloniki in 2004 From 1964 to 1970 he was with the NASA Langley Research Center in Hampton VA and from 1970 to 1983 he was with the Department of Electrical Engineering of West Virginia University In 1983 he joined Arizona State University and is now Regents Professor of Electrical Engineering Dr Balanis is also a life fellow of the IEEE *Government Reports Announcements*, 1974

Antennas Yi Huang, Kevin Boyle, 2008-09-15 Practical concise and complete reference for the basics of modern antenna design Antennas from Theory to Practice discusses the basics of modern antenna design and theory Developed specifically for engineers and designers who work with radio communications radar and RF engineering this book offers practical and hands on treatment of antenna theory and techniques and provides its readers the skills to analyse design and measure various antennas Key features Provides thorough coverage on the basics of transmission lines radio waves and propagation and antenna analysis and design Discusses industrial standard design software tools and antenna measurement equipment facilities and techniques Covers electrically small antennas mobile antennas UWB antennas and new materials for antennas Also discusses reconfigurable antennas RFID antennas Wide band and multi band antennas radar antennas and MIMO antennas Design examples of various antennas are provided Written in a practical and concise manner by authors who are experts in antenna design with experience from both academia and industry This book will be an invaluable resource for engineers and designers working in RF engineering radar and radio communications seeking a comprehensive and practical introduction to the basics of antenna design The book can also be used as a textbook for advanced students entering a profession in this field *Annual Report 1989-90* New Brunswick. Department of Transportation, 1991 General activity review of associated branches and agencies to the Department which includes corporate securities registrations a list of

tenders received and general financial data Branches and agencies reviewed are responsible for motor vehicle activity highway construction traffic engineering telecommunications and public utilities **Government Reports**

Announcements & Index ,1991-07 **Applied Science & Technology Index** ,1996 *Reference Manual for Telecommunications Engineering* Roger L. Freeman,1994 Contains a compendium of the most frequently used data in day to day telecommunications engineering work tables graphs figures formulae nomograms performance curves standards highlights constants and statistics Designed for easy and rapid access Comprehensive reference for designing building purchasing using or maintaining all kinds of telecommunications systems Central source of information on transmission switching traffic engineering numbering signaling noise modulation and forward error correction *Aeronautical Engineering* ,1986 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA *NASA SP.* ,1986 **Antenna Theory and Design** Warren L. Stutzman,Gary A. Thiele,1998 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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