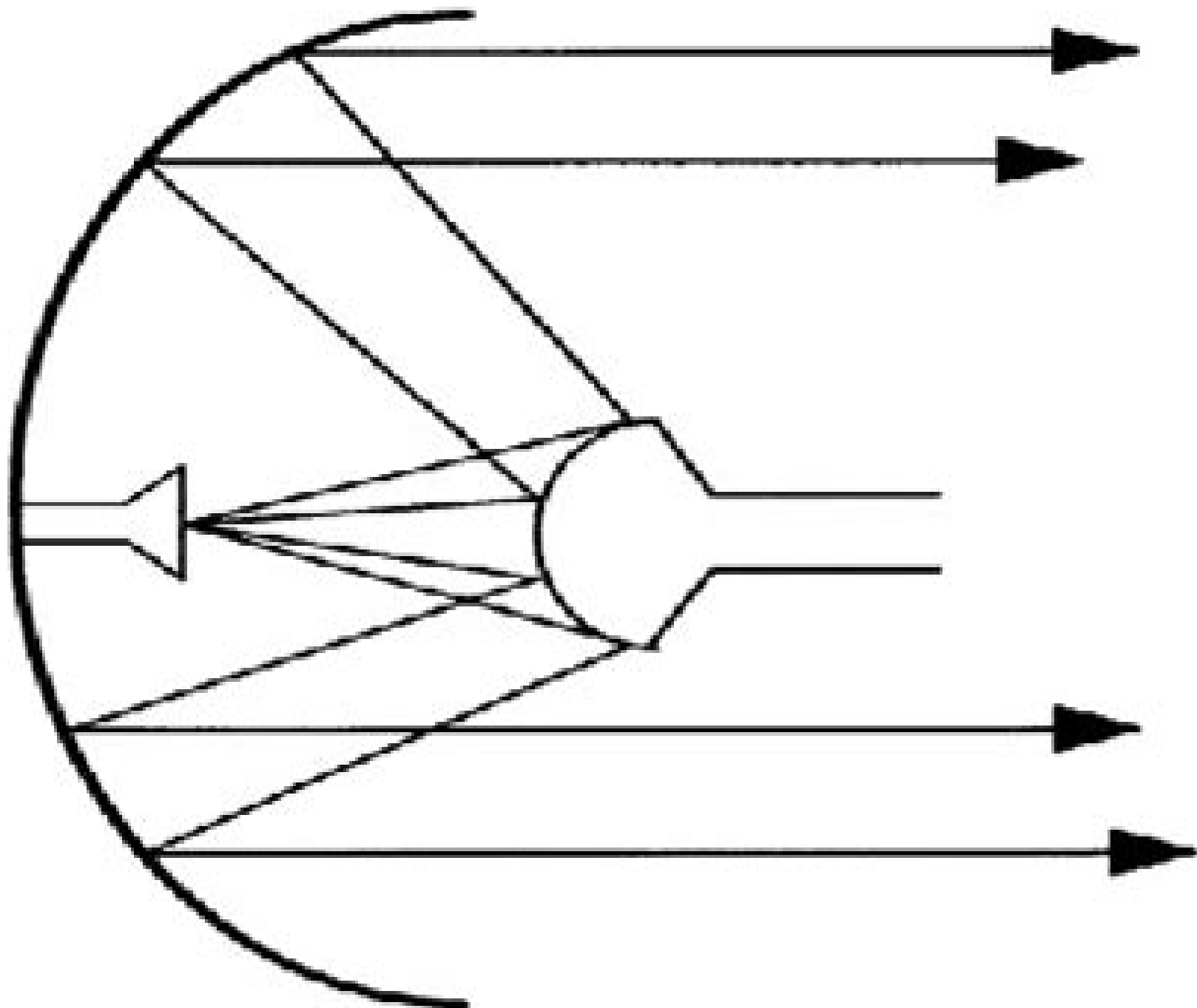




Reflector Antennas

Alan W. Rudge



Reflector Antennas:

Handbook of Reflector Antennas and Feed Systems Volume I: Theory and Design of Reflectors Satish K. Sharma, Sudhakar Rao, Lotfollah Shafai, 2013-07-01 This is the first truly comprehensive and most up to date handbook available on modern reflector antennas and feed sources for diversified space and ground applications There has never been such an all encompassing reflector handbook in print and no currently available title offers coverage of such recent research developments The Handbook consists of three volumes Volume I provides a unique combination of theoretical underpinnings with design considerations and techniques The need for knowledge in reflector antennas has grown steadily over the last two decades due to increased use in space and ground applications as well as their high gain and wide bandwidth capabilities at relatively low cost This volume brings you to the leading edge of developments in the field related to numerical techniques classical reflector geometries adaptive reflector antennas shaped reflectors bifocal and bicolimated dual reflectors advanced reflectors and reflect arrays A must have reference for both practicing engineers as well as academic researchers

Antenna Theory and Practice Rajeswari Chatterjee, 1996 This Book Has Been Designed For Both The Undergraduate And Postgraduate In Electronic Engineering Electrical Communication Engineering And Electrical Engineering And For The Postgraduate In Physics Specialising In Electronics It Is A Compact And Comprehensive Text And It Stresses The Basic Principles Of Antenna Theory And Practice Starting With Electromagnetics And The Theory Of Radiation Which Forms The Basis Of Antenna Theory It Treats In Detail Different Types Of Antennas Like The Linear Antenna The Cylindrical Antenna The Biconical Antenna The Loop Antenna The Helical Antenna Slot And Microstrip Antennas Horn Antennas Reflector Antennas Lens Antennas Leaky Wave And Surface Wave Antennas Including Dielectric And Dielectric Loaded Antennas Wide Band Antennas And Some Modern Special Types Of Antennas There Are Also Chapters On Antenna Synthesis Antenna Practice Antenna Measurements And Electromagnetic Wave Propagation The Detailed Coverage Of Electromagnetic Theory Enables The Student To Understand The Theoretical Aspects With Comparative Ease The Chapters On Antenna Synthesis Antenna Practice And Antenna Measurements Are Useful For The Practical Antenna Engineer The Problems At The End Of Chapters Tables And Numerous Illustrations Add To The Value Of The Text In This Second Edition A New Chapter On Antenna Impedance And Some Solved Problems Have Been Added The Book Presupposes Only The Knowledge Of Mathematics Which A Student Of Undergraduate Engineering Or Undergraduate Physics Has Required

Handbook of Reflector Antennas and Feed Systems Volume II: Feed Systems Lotfollah Shafai, Satish K. Sharma, Sudhakar Rao, 2013-07-01 This is the first truly comprehensive and most up to date handbook available on modern reflector antennas and feed sources for diversified space and ground applications There has never been such an all encompassing reflector handbook in print and no currently available title offers coverage of such recent research developments The Handbook consists of three volumes Volume II focuses on feed sources Reflector antennas are extraordinary devices that combine high gain with geometrical

simplicity and can operate in broad frequency bands Their performance however depends on the electrical characteristics of the feed system with which they operate This comprehensive volume provides you with a solid understanding of feed system theory design and analysis Featuring chapters authored by experts in each aspect of feed systems this book takes you from fundamental mathematical techniques electrically small and large dual reflectors feed geometry and telemetry tracking and command antennas and more Throughout the book numerous examples are provided to guide you in the practical aspects of feed design

Handbook of Reflector Antennas and Feed Systems Volume III: Applications of Reflectors Sudhakar Rao, Lotfollah Shafai, Satish K. Sharma, 2013-06-01 This is the first truly comprehensive and most up to date handbook available on modern reflector antennas and feed sources for diversified space and ground applications There has never been such an all encompassing reflector handbook in print and no currently available title offers coverage of such recent research developments The Handbook consists of three volumes Volume III focuses on the range of reflector antenna applications including space terrestrial and radar The intent of this book volume is to provide practical applications and design information on reflector antennas used for several communications systems This book covers recent developments of reflector antennas used for satellite communications terrestrial communications and remote sensing applications New subjects are introduced for the first time including satellite antennas Terahertz antennas PIM multipaction corona deployable mesh reflector antennas and mechanical aspects of reflector antennas In addition this book contains a separate topic on integrated feed assembly for reflector antennas covering analysis design fabrication and test

The Theory of Reflector Antennas Carlyle J. Sletten, 1966

The Paraboloidal Reflector Antenna in Radio Astronomy and Communication Jacob W. M. Baars, 2007-08-06 Reflector antennas are widely used in the microwave and millimeter wavelength domain Radio astronomers have developed techniques of calibration of large antennas with radio astronomical methods These have not been comprehensively described This text aims to fill this gap It takes a practical approach to the characterisation of antennas All calculations and results in the form of tables and figures have been made with Mathematica by Wolfram Research The reader can use the procedures for the implementation of his own input data The book should be of use to all who are involved in the design and calibration of large antennas like ground station managers and engineers practicing radio astronomers and graduate students in radio astronomy and communication technology

Analysis of Reflector Antennas W. V. T. Rusch, P. D. Potter, 2013-10-22 Analysis of Reflector Antennas provides information pertinent to the analysis of reflector antenna systems This book provides an understanding of how design data have been and can be derived Organized into four chapters this book begins with an overview of the history of focusing reflector antenna systems characterized by a highly variable level of general interest This text then examines the solutions of the scalar Helmholtz equation in rectangular and spherical coordinates Other chapters consider antenna performance described in terms of several fundamental properties including capture area directivity gain beam efficiency aperture efficiency polarization effective noise temperature

and phase center This book discusses as well the resulting functional dependence between axial ratio and component amplitude which is the same as that between voltage standing wave ratio and voltage reflection coefficient The final chapter deals with the role of the special purpose digital computers This book is a valuable resource for research and development engineers

Antennas and Wave Propagation G. S. N. Raju, 2006 Antennas and Wave Propagation is written for the first course on the same The book begins with an introduction that discusses the fundamental concepts notations representation and principles that govern the field of antennas A separate chapter on mathematical preliminaries is discussed followed by chapters on every aspect of antennas from Maxwell's equations to antenna array analysis antenna array synthesis antenna measurements and wave propagation

Satellite Technology Anil K. Maini, Varsha Agrawal, 2007-01-29 Offering readers a concise and yet comprehensive reference Satellite Technology provides a unique coverage of both the principles and applications in this wide field This book covers the technological and application aspects of satellites in one volume ensuring not only extensive coverage of communications related applications of satellites but also other important applications such as remote sensing weather forecasting navigation scientific and military The essentials of satellite technology are explained by giving an introduction to the fundamental topics such as orbits and trajectories launch and in orbit operations before going on to describe satellite hardware communication techniques multiple access techniques and link design Topics range from the history and evolution of satellites and the laws governing motion of artificial satellites around earth to multiplexing techniques satellite subsystems and link design fundamentals Amply illustrated with a large number of figures and photographs as well as relevant mathematics and design examples Contains a large number of problems with solutions which would particularly benefit students at undergraduate and graduate levels Companion website provides a complete compendium on features and facilities of satellites and satellite launch vehicles from past present and planned futuristic satellite missions for various applications The coverage of satellite technology together with its applications make the book an essential reference book for professionals R D scientists and engineers and students at undergraduate and postgraduate level

The Handbook of Antenna Design Alan W. Rudge, 1982 This book presents the fundamental background theory and analytical techniques of antenna design It deals with a very wide range of antenna types operating from very low frequencies to millimetre waves

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