

CHAPTER III

METHODOLOGY RESULTS AND DISCUSSION

This chapter covers the research design and methodology, including the chronological listing steps and procedures used by the proponents. Methods used for gathering of data, laboratory and field experiment, theoretical and/or conceptual frameworks, as well as techniques employed in the analyses of data must be specifically listed.

Research method

The research methodology used is Lean Software Development with the method of developing a concept of the system and data collection techniques through interviews and observations.



Chapter 2 antennas And Projects

Huangqi Zhang



Chapter 2 Antennas And Projects:

Towards a Global 3G System Ramjee Prasad, 2001 Europe's leading experts from industry and academia present the results of the research into advanced mobile technologies and services performed within the scope of the ACTS R D program in two new book volumes Invaluable for industry professionals and researchers the state of the art in European R D into wireless technologies is detailed in these two works

Practical Microstrip and Printed Antenna Design Anil Pandey, 2019-03-31 This comprehensive resource presents antenna fundamentals balanced with the design of printed antennas Over 70 antenna projects along with design dimensions design flows and antenna performance results are discussed including antennas for wireless communication 5G antennas and beamforming Examples of smartphone antennas MIMO antennas aerospace and satellite remote sensing array antennas automotive antennas and radar systems and many more printed antennas for various applications are also included These projects include design dimensions and parameters that incorporate the various techniques used by industries and academia This book is intended to serve as a practical microstrip and printed antenna design guide to cover various real world applications All Antenna projects discussed in this book are designed analyzed and simulated using full wave electromagnetic solvers Based on several years of the author's research in antenna design and development for RF and microwave applications this book offers an in depth coverage of practical printed antenna design methodology for modern applications

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 bicollimated dual reflectors advanced reflectors and reflect arrays A must have reference for both practicing engineers as well as academic researchers

Building Antennas for HAM Radios Barrett Williams, ChatGPT, 2025-11-29 Unlock the world of radio waves and elevate your HAM radio experience with Building Antennas for HAM Radios a comprehensive eBook designed for enthusiasts ready to transition from passive listening to active building Whether you're a seasoned HAM operator or a curious newcomer this book demystifies the art and science of antenna construction empowering you to design build and optimize your own antenna systems Start your journey by understanding the fundamental physics that underlie antenna operations and explore various types available for HAM radio

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Antenna Design for Mobile Devices Zhijun Zhang, 2017-06-13 Expanded and updated this practical guide is a one stop design reference containing all an engineer needs when designing antennas Integrates state of the art technologies with a special section for step by step antenna design Features up to date bio safety and electromagnetic compatibility regulation compliance and latest standards Newly updated with MIMO antenna design measurements and requirements Accessible to readers of many levels from introductory to specialist Written by a practicing expert who has hired and trained numerous engineers

Hands-on Project Management: Practice Your Skills With Simulation Based Training Avraham Shtub, Moshe Rosenwein, 2017-12-28 Teaching project management is not an easy task Part of the difficulty is the one of a kind nature of projects This book and the software that comes with it Project Team Builder present a unique approach to the teaching and training of project management an approach based on a software tool that combines an interactive dynamic case study and a simple yet effective Project Management System The book focuses on problems that the project manager faces in planning monitoring and controlling projects Together with the software the book provides the user with the opportunity to experience complex Project Management situations understand the situation develop alternative ways to cope with it and select the best alternative based on rigorous analysis Project Team Builder PTB the software that accompanies this book is web based please visit www.sandboxmodel.com To use PTB you must enter the unique access code provided on the inside front cover of this book If you are using an e book please click here for your unique code This book also has accompany video tutorials Visit www.sandboxmodel.com to access the Videos

Satellite Ground Station Antennas Roland Schwerdtfeger, Thomas A. Milligan, Robert Hoferer, Christophe Granet, 2024-12-24 Understand all aspects of ground station design with this

groundbreaking volume A satellite ground station is a terrestrial station built to communicate or receive signals from spacecraft and other astronomical and interplanetary sources Since ground stations are subject to weather and other terrestrial conditions their operations can be unpredictable and their design offers numerous challenges for engineers Satellite Ground Station Antennas constitutes the first ever comprehensive overview of these challenges and the tools by which engineers of all kinds can meet them Analyzing every aspect of ground station antenna technology the book can be read both continuously or as a reference with each chapter functioning by itself to fully apprehend a discrete portion of the subject Balancing mathematics with mechanics it combines accessibility and rigor to create an unprecedented resource Satellite Ground Station Antennas readers will also find In depth material published in a fully accessible form for the first time Detailed discussion of topics including reflector design structural considerations proof of performance add more Lavish illustrations and photographs throughout Satellite Ground Station Antennas is ideal for electrical mechanical and civil engineers as well as for any other industry professional working with ground station design

Project Reports of the National Institute of Law Enforcement and Criminal Justice ,1971 *The WLAN Band-Notching of Ultra WideBand Antennas* Zeeshan Ahmed,2016-06-17 Technical Report from the year 2013 in the subject Engineering Communication Technology grade A course Electrical Engineering language English abstract In this report three staircase UWB antennae with WLAN band notch characteristic each having different ground planes are presented These include a Co Planar Waveguide fed antenna a Transmission Line fed antenna with partial ground plane having a Defected Ground Structure DGS and a Transmission Line fed antenna with slotted ground plane All the band notched antennae have rejection characteristics at 5 GHz WLAN band 5 15GHz to 5 35GHz and 5 725GHz to 5 825 GHz while the antenna with slotted ground plane rejects the 4 9GHz WLAN band 4 94GHz to 4 99GHz as well In all the three antennae the WLAN band is notched by embedding a U shaped slot in the transmission line The proposed antennae are carefully designed simulated and tested in order to fulfill the UWB antennae s pre defined criteria The Simulated and Measured results are found to be in good agreement which show the validity of the suggested designs Since the commencement of human civilization humankind attempts to communicate with each other It is the process of communication namely the sharing of information emotions and feelings that has made the mankind the sterling creation of God It all started with gestures of hands and sounds produced by the vocal cords and gradually evolved into wired and wireless communication now The orthodox wireless systems were long range narrowband systems but in order to use the available spectrum now UWB Ultra Wideband short range systems are being used which consume low power and built using low priced digital components The Microstrip Antennae are designed to implement UWB systems because they show effective results for broadband antennae Ultra wideband UWB antennae are by far the most essential elements for UWB systems With the launch of the 3 1GHz to 10 6GHz band applications for short range and high bandwidth portable gadgets are major research areas in UWB systems Consequently the acknowledgment of UWB antennas

in printed circuit systems within comparatively small substrate areas is of major significance The ARRL Handbook for the Radio Amateur ,2001 **The ARRL Antenna Book** American Radio Relay League,2003 The ultimate reference for amateur radio antennas transmission lines and propagation Extensively revised readers will find the latest antenna theory and a wealth of practical how to construction projects CD ROM included with the complete fully searchable text **The ARRL Handbook for Radio Communications** ,2005 *Antentop 01 2006* , American Radio Relay League Handbook for Radio Communications ,2007 **Report on Adaptive Antenna Implementation Options** ,1995 **Microwave Journal** ,2006 **22 Radio and Receiver Projects for the Evil Genius** Thomas Petruzzellis,2007-09-24 MORE THAN JUST SLIGHTLY EVIL SAFE INEXPENSIVE EDUCATIONAL AND FUN 22 Radio and Receiver Projects for the Evil Genius features a unique collection of projects that teach you radio and electronics essentials such as the radio spectrum how to read schematics and how to solder After each project is completed you can enjoy listening to and using their new receiver

NASA Historical Data Book. Volume 2: Programs and Projects 1958-1968 ,1988 Ham Radio Magazine ,1989

Introduction to Flight John David Anderson,2000 This book is intended for a one semester freshman sophomore level course entitled introduction to aerospace engineering or introduction to flight Anderson s book continues to be a market leader It has dominated the first course in the aero sequence since it was first published in 1978 It is the most accessible book on the market due to Anderson s ability to motivate the student with a unique historical view that provides a wealth of technical material

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