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BANDWIDTH-EFFICIENT DIGITAL MODULATION WITH APPLICATION TO DEEP SPACE COMMUNICATIONS



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Bandwidth Efficient Digital Modulation With Application To Deep Space Communications

Stephen B. Wicker



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Bandwidth-Efficient Digital Modulation with Application to Deep Space Communications Marvin K.

Simon, 2005-02-18 An important look at bandwidth efficient modulations with applications to today's Space program Based on research and results obtained at the California Institute of Technology's Jet Propulsion Laboratory this timely book defines describes and then delineates the performance power and bandwidth of digital communication systems that incorporate a wide variety of bandwidth efficient modulations appropriate for the design and implementation of space communications systems The author compares the performance of these systems in the presence of a number of practical non ideal transmitter and receiver characteristics such as modulator and phase imbalance imperfect carrier synchronization and transmitter nonlinearity Although the material focuses on the deep space applications developed at the Jet Propulsion Laboratory the presentation is sufficiently broad as to be applicable to a host of other applications dealing with RF communications An important contribution to the scientific literature Bandwidth Efficient Digital Modulation with Application to Deep Space Communications was commissioned by the JPL Deep Space Communications and Navigation System Center of Excellence highlights many NASA funded technical contributions pertaining to deep space communications systems is a part of the prestigious Deep Space Communications and Navigation Series The Deep Space Communications and Navigation Series is authored by scientists and engineers with extensive experience in astronautics communications and related fields It lays the foundation for innovation in the areas of deep space navigation and communications by disseminating state of the art knowledge in key technologies

Bandwidth-Efficient Digital Modulation with Application to Deep-Space Communications
Marvin K. Simon, United States. National Aeronautics and Space Administration, Jet Propulsion Laboratory (U.S.), 2001

Low-Energy Lunar Trajectory Design Jeffrey S. Parker, Rodney L. Anderson, 2014-06-25 Based on years of research conducted at the NASA Jet Propulsion Laboratory *Low Energy Lunar Trajectory Design* provides high level information to mission managers and detailed information to mission designers about low energy transfers between Earth and the moon The book answers high level questions about the availability and performance of such transfers in any given month and year Low energy lunar transfers are compared with various other types of transfers and placed within the context of historical missions Using this book designers may reconstruct any transfer described therein as well as design similar transfers with particular design parameters An Appendix Locating the Lagrange Points and a useful list of terms and constants completes this technical reference Surveys thousands of possible trajectories that may be used to transfer spacecraft between Earth and the moon including transfers to lunar libration orbits low lunar orbits and the lunar surface Provides information about the methods models and tools used to design low energy lunar transfers Includes discussion about the variations of these transfers from one month to the next and the important operational aspects of implementing a low energy lunar transfer Additional discussions address navigation station keeping and spacecraft systems issues Spacecraft Optical Navigation

William M. Owen, Jr., 2024-10-22 **UNIQUE RESOURCE EXPLORING HOW SPACECRAFT IMAGERY PROVIDES PROFESSIONALS WITH ACCURATE ESTIMATES OF SPACECRAFT TRAJECTORY WITH REAL WORLD EXAMPLES AND DETAILED ILLUSTRATIONS** Spacecraft Optical Navigation provides detailed information on the planning and analysis of spacecraft imagery to help determine the trajectory of a spacecraft The author an experienced engineer within the field addresses the entirety of celestial targets and explains how a spacecraft captures their imagery Aimed at professionals within spacecraft navigation this book provides an extensive introduction and explains the history of optical navigation reviewing a range of optical methods and presents real world examples throughout With the use of mathematics this book discusses everything from the orbits sizes and shapes of the bodies being imaged to the location and properties of salient features on their surfaces Specific sample topics covered in Spacecraft Optical Navigation include History of various past spacecraft including Mariner and Viking Voyager Galileo NEAR Shoemaker and Cassini and flight hardware star catalogs and stereophotoclinometry Cameras covering the gnomonic projection and deviations from it creation of a digital picture picture flattening and readout smears Modeling optical navigation observables covering apparent directions to an object star and limbs or terminators and orientation of cameras Obtaining optical navigation observables covering centerfinding for stars and resolved and unresolved bodies and using opnav data in orbit determination Spacecraft Optical Navigation is an ideal resource for engineers working in spacecraft navigation and optical navigation to update their knowledge of the technology and use it in their day to day The text will also benefit researchers working with spacecraft particularly in navigation and professors and lecturers teaching graduate aerospace courses

Spaceborne Antennas for Planetary Exploration

William A. Imbriale, 2006-08-08 JPL spacecraft antennas from the first Explorer satellite in 1958 to current R D Spaceborne Antennas for Planetary Exploration covers the development of Jet Propulsion Laboratory JPL spacecraft antennas beginning with the first Explorer satellite in 1958 through current research and development activities aimed at future missions Readers follow the evolution of all the new designs and technological innovations that were developed to meet the growing demands of deep space exploration The book focuses on the radio frequency design and performance of antennas but covers environmental and mechanical considerations as well There is additionally a thorough treatment of all the analytical and measurement techniques used in design and performance assessment Each chapter is written by one or more leading experts in the field of antenna technology The presentation of the history and technology of spaceborne antennas is aided by several features Photographs and drawings of JPL spacecraft Illustrations to help readers visualize concepts and designs Tables highlighting and comparing the performance of the antennas Bibliographies at the end of each chapter leading to a variety of primary and secondary source material This book complements Large Antennas of the Deep Space Network Wiley 2002 which surveys the ground antennas covered in support of spacecraft Together these two books completely cover all JPL antenna technology in keeping with the JPL Deep Space Communications and Navigation Series mission to capture and

present the many innovations in deep space telecommunications over the past decades This book is a fascinating and informative read for all individuals working in or interested in deep space telecommunications

Coupled-Oscillator Based Active-Array Antennas Ronald J. Pogorzelski, Apostolos Georgiadis, 2012-07-18 Describing an innovative approach to phased array control in antenna design This book explores in detail phased array antennas that use coupled oscillator arrays an arrangement featuring a remarkably simple beam steering control system and a major reduction in complexity compared with traditional methods of phased array control It brings together in one convenient self contained volume the many salient research results obtained over the past ten to fifteen years in laboratories around the world including the California Institute of Technology s Jet Propulsion Laboratory The authors examine the underlying theoretical framework of coupled oscillator systems clearly explaining the linear and nonlinear formalisms used in the development of coupled oscillator arrays while introducing a variety of state of the art methodologies design solutions and tools for applying this control scheme Readers will find Numerous implementation examples of coupled oscillator array prototypes A continuum model that permits application of diffusion theory to the analysis of phase dynamics A demonstration of the array behavior through experimental results that validate the linearized theory Examples of how incorporating coupling delay restores causality including the latest published results Guidance on how to accurately analyze and optimize coupled oscillator arrays using modern simulation tools A review of current developments including the design of compact couple oscillator array antennas Complete with 150 diagrams and photographs Coupled Oscillator Based Active Array Antennas is a highly useful tutorial for antenna designers and a valuable reference for researchers and engineers wishing to learn about this cutting edge technology

Spectral and Power Efficient 8-PSK Modulation Using Interpolation Mike Hsieh, 2004 [Spectrum and RF Power Efficient Wireless Communication Systems](#) Jinsong Lin, 2003 [Low-Noise Systems in the Deep Space Network](#) Macgregor S. Reid, 2008-09-29 The book explores the low noise microwave systems that form the front end of all DSN ground receiving stations It explains why the front end of each antenna is key to establishing the sensitivity polarization frequency diversity and capabilities of the receiving chain and therefore the entire ground station

Antenna Arraying Techniques in the Deep Space Network David H. Rogstad, Alexander Mileant, Timothy T. Pham, 2003 An introduction to antenna Arraying in the Deep Space network Antenna arraying is the combining of the output from several antennas in order to improve the signal to noise ratio SNR of the received signal Now implemented at the Goldstone Complex and other Deep Space Network DSN overseas facilities antenna arraying provides flexible use of multiple antennas to increase data rates and has enabled NASA s DSN to extend the missions of some spacecraft beyond their planned lifetimes Antenna Arraying Techniques in the Deep Space Network introduces the development and use of antenna arraying as it is implemented in the DSN Drawing on the work of scientists at JPL this timely volume summarizes the development of antenna arraying and its historical background describes key concepts and techniques analyzes and compares several methods of arraying discusses several correlation techniques

used for obtaining the combined weights presents the results of several arraying experiments and suggests directions for future work An important contribution to the scientific literature Antenna Arraying Techniques in the Deep Space Network Was commissioned by the JPL Deep Space Communications and Navigation Systems DESCANSO Center of Excellence Highlights many NASA funded technical contributions pertaining to deep space communications systems Is a part of the prestigious JPL Deep Space Communications and Navigation Series The Deep Space Communications and Navigation Series is authored by scientists and engineers with extensive experience in astronautics communications and related fields It lays the foundation for innovation in the areas of deep space navigation and communications by disseminating state of the art knowledge in key technologies

Journal of Communications and Networks, 2003

Radio Occultations Using Earth Satellites William G. Melbourne, 2005 the wave theory foundations of today's radio occultation techniques Forty years ago the premier radio occultation problem was how to profile the atmosphere and radius of Mars using signals sent by the Mariner 4 spacecraft Researchers then could rely on ray theory based techniques for accurate analysis of the thin uniform Martian atmosphere Today's radio occultation challenges mostly involve communications platforms and related data instrument systems and applications in the Earth's own atmosphere To deal with the density and complexity of this multilayered medium an analytical framework that goes beyond ray theory is needed Setting the cutting edge for the field

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Introduction to Digital Communications Michael B. Pursley, 2005 In addition to full analyses of optimum systems Pursley electrical and computer engineering Clemson University develops the analytical tools needed to evaluate suboptimum systems and conduct tradeoff studies in this text for a first course in digital communication system engineering for advanced undergraduates and beginning graduate students in electrical and computer engineering

The text features clear derivations and solved exercises with coverage progressing from a review of probability and random variable through intersymbol interference and spread spectrum communications Background in linear systems is required

2004 Book News Inc Portland Scientific and Technical Aerospace Reports ,1992 **Conference Proceedings** ,2003

The Handbook of Computer Networks, Key Concepts, Data Transmission, and Digital and Optical Networks Hossein Bidgoli,2008 A complete and in depth introduction to computer networks and networking In this first volume of The Handbook of Computer Networks readers will get a complete overview of the key concepts of computers networks data transmission and digital and optical networks Providing a comprehensive examination of computer networks the book is designed for both undergraduate students and professionals working in a variety of computer network dependent industries With input from over 270 experts in the field the text offers an easy to follow progression through each topic and focuses on fields and technologies that have widespread application in the real world *Error Control Systems for Digital Communication and Storage* Stephen B. Wicker,1995 For introductory graduate courses in coding for telecommunications engineering digital communications This introductory text on error control coding focuses on key implementation issues and performance analysis with applications valuable to both mathematicians and engineers Deep Space Communication and Navigation Study ,1968 Space/aeronautics ,1964 Wiley Encyclopedia of Telecommunications John G. Proakis,2003

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