

JPL DEEP SPACE COMMUNICATIONS AND NAVIGATION SERIES

ANTENNA ARRAYING TECHNIQUES IN THE DEEP SPACE NETWORK

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Antenna Arraying Techniques In The Deep Space Network

Honghua Tan

Antenna Arraying Techniques In The Deep Space Network:

Antenna Arraying Techniques in the Deep Space Network David H. Rogstad, Alexander Mileant, Timothy T. Pham, 2005-02-18 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 **Spaceborne Antennas for Planetary Exploration** William A. Imbriale, 2006-08-08 IPL 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 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 Coupled-Oscillator Based Active-Array Antennas Ronald J. Pogorzelski, Apostolos aerospace courses 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 Communications, Signal Processing, and Systems Oilian Liang, Xin Liu, Zhenyu Na, Wei Wang, Jiasong Mu, Baoju Zhang, 2019-05-04 This book brings together papers from the 2018 International Conference on Communications Signal Processing and Systems which was held in Dalian China on July 14 16 2018 Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging from communications signal processing and systems It is aimed at undergraduate and graduate electrical engineering computer science and mathematics students researchers and engineers from academia and industry as well as government employees Antenna Theory and Design Warren L. Stutzman, Gary A. Thiele, 2012-05-22 Stutzman s 3rd edition of Antenna Theory and Design provides a more pedagogical approach with a greater emphasis on computational methods New features include additional modern material to make the text more exciting and relevant to practicing engineers new chapters on systems low profile elements and base station antennas organizational changes to improve understanding more details to selected important topics such as microstrip antennas and arrays and expanded measurements topic Proceedings of the 28th Conference of Spacecraft TT&C Technology in China Rongjun Shen, Guangliang Dong, 2017-07-25 This book collects selected papers from the 28th Conference of Spacecraft TT C Technology in China held on November 8 10 2016 The book features state of the art studies on spacecraft TT C in China with the theme of Openness Integration and Intelligent Interconnection To meet requirements of new space endeavors development of spacecraft instrumentation systems have to follow an open concept and approach in China An open spacecraft instrumentation system encompasses integrated development of different types of services integration of disciplines and specialties intelligent links and more scientific and intelligent information interface technology Researchers and engineers in the field of aerospace engineering and communication engineering can benefit from the book The Square Kilometre Array: An Engineering Perspective Peter J. Hall, 2006-01-19 The Square Kilometre Array SKA Project is a global project to design and c struct a revolutionary new radio telescope with of order 1 million square meters of collecting area in the wavelength range from3mto1cm It will have two ders of magnitude greater sensitivity than current telescopes and an unprecedented large instantaneous eld of view These capabilities will ensure the SKA will play a leading role in solving the major astrophysical and cosmological questions of the day see the science case at www skatelescope org pages page astronom htm The SKA will complement major ground and space based astronomical facilities under construction or planned in other parts of the electromagnetic spectrum e g ALMA JWST ELT XEUS The current schedule for the SKA

foresees a decision on the SKA site in 2006 a decision on the design conceptin 2009 construction of the rstphase international path nder from 2010 to 2013 and construction of the full array from 2014 to 2020. The cost is estimated to be about 1000 M. The SKAProject currently involves 45 institutes in 17 countries many of which are involved in nationally or regionally funded state of the art technical devel ments being pursued ahead of the 2009 selection of design concept This Special Issue of Experimental Astronomy provides a snapshot of SKA engineering act ity around the world and is based on presentations made at the SKA meeting in Penticton BC CanadainJuly2004 Topicscoveredincludeantennaconcepts so ware signal transport and processing radio frequency interference mitigation and reports on related technologies in other radio telescopes now under construction Further information on the project can be found at www skatelescope org Trajectory Design Jeffrey S. Parker, Rodney L. Anderson, 2014-06-03 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 NASA Authorization for Fiscal Year 1981 United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Surface Transportation, United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1980 Scientific and Technical Aerospace Reports, 1991 *Informatics in Control,* Automation and Robotics Honghua Tan, 2012-02-01 Session 1 includes 109 papers selected from 2011 3rd International Asia Conference on Informatics in Control Automation and Robotics CAR 2011 held on December 24 25 2011 Shenzhen China This session will act as an international forum for researchers and practitioners interested in the advances in and applications of Intelligent Control Systems It is an opportunity to present and observe the latest research results and ideas in these areas Intelligent control is a rapidly developing complex and challenging field of increasing practical importance and still greater potential Its applications have a solid core in robotics and mechatronics but branch out into areas as diverse as process control automotive industry medical equipment renewable energy and air conditioning So this session will aim to

strengthen relationships between industry research laboratories and universities All papers published in session 1 will be peer evaluated by at least two conference reviewers Acceptance will be based primarily on originality and contribution

Mechanical Engineering and Technology Tianbiao Zhang, 2012-02-22 The volume includes a set of selected papers extended and revised from the 2011 International Conference on Mechanical Engineering and Technology held on London UK November 24 25 2011 Mechanical engineering technology is the application of physical principles and current technological developments to the creation of useful machinery and operation design Technologies such as solid models may be used as the basis for finite element analysis FEA and or computational fluid dynamics CFD of the design Through the application of computer aided manufacturing CAM the models may also be used directly by software to create instructions for the manufacture of objects represented by the models through computer numerically controlled CNC machining or other automated processes without the need for intermediate drawings This volume covers the subject areas of mechanical engineering and technology and also covers interdisciplinary subject areas of computers communications control and automation We hope that researchers graduate students and other interested readers benefit scientifically from the book and Research and Technology Objectives and Plans Summary, 1991 also find it stimulating in the process NASA Technical Radio Occultations Using Earth Satellites William G. Melbourne, 2005 the wave theory Memorandum, 1991 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 Radio Occultations Using Earth Satellites A Wave Theory Treatment develops a purely wave theoretic approach to occultation analysis This approach yields more nuanced results than either ray or hybrid ray wave methodologies offer and proves suitable for the many variables at work in today s problems This groundbreaking text provides An introduction to the general theory of radio occultations Development of ray theory and scalar diffraction treatments of radio propagation processes Development of a wave theoretic treatment of the above wave propagation processes The correspondence between wave and ray theories A discussion of how to use a wave theoretic approach to infer the refractive properties of the propagation medium from a time series set of observations of the propagated wave s phase and amplitude A comprehensive resource that clearly defines the latest topics and methodologies Radio Occultations Using Earth Satellites is a must have text for engineers scientists students and managers in satellites communications navigation deep space and planetary exploration aerospace atmospheric science physics and engineering 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 Advanced Trends in Wireless Communications Mutamed Khatib,2011-02-17 Physical limitations on wireless communication channels impose huge challenges to reliable communication Bandwidth limitations propagation loss noise and interference make the wireless channel a narrow pipe that does not readily accommodate rapid flow of data Thus researches aim to design systems that are suitable to operate in such channels in order to have high performance quality of service Also the mobility of the communication systems requires further investigations to reduce the complexity and the power consumption of the receiver This book aims to provide highlights of the current research in the field of wireless communications The subjects discussed are very valuable to communication researchers rather than researchers in the wireless related areas The book chapters cover a wide range of wireless communication topics Advances in Recent Trends in Communication and Networks ,2010

1982 NASA Authorization (program Review) United States. Congress. House. Committee on Science and Technology. Subcommittee on Transportation, Aviation, and Communications, 1980 Advances in Mechatronics, Robotics and Automation II Prasad Yarlagadda, 2014-04-04 Selected peer reviewed papers from the 2014 2nd International Conference on Mechatronics Robotics and Automation ICMRA 2014 March 8 9 2014 Zhuhai China

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