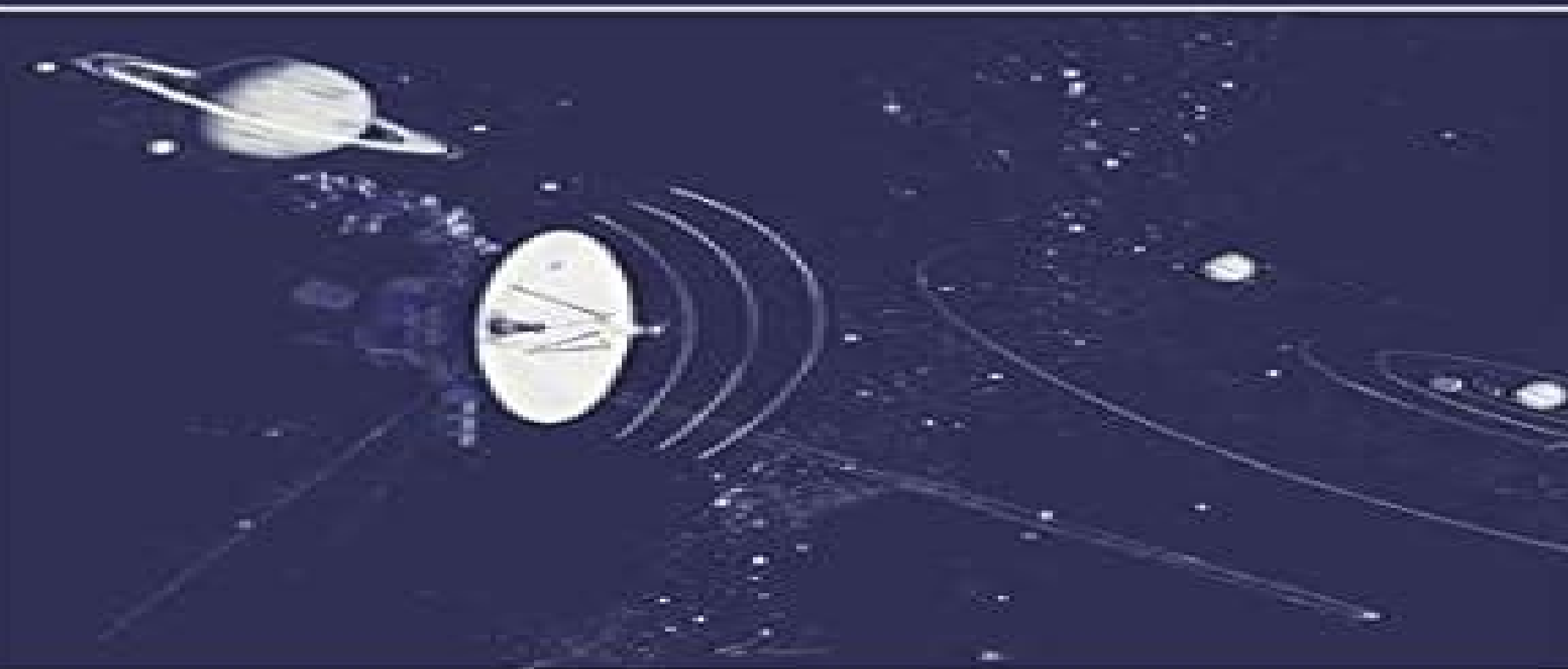


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Deep Space Telecommunications Systems Engineering

Edited by Joseph H. Yuen

Deep Space Telecommunications Systems Engineering

Joseph H. Yuen



Deep Space Telecommunications Systems Engineering:

Deep Space Telecommunications Systems Engineering Joseph H. Yuen, 2013-04-17 The challenge of communication in planetary exploration has been unusual The guidance and control of spacecraft depend on reliable communication Scientific data returned to earth are irreplaceable or replaceable only at the cost of another mission In deep space communications propagation is good relative to terrestrial communications and there is an opportunity to press toward the mathematical limit of microwave communication Yet the limits must be approached warily with reliability as well as channel capacity in mind Further the effects of small changes in the earth's atmosphere and the interplanetary plasma have small but important effects on propagation time and hence on the measurement of distance Advances are almost incredible Communication capability measured in 18 bits per second at a given range rose by a factor of 10 in the 19 years from Explorer I of 1958 to Voyager of 1977 This improvement was attained through ingenious design based on the sort of penetrating analysis set forth in this book by engineers who took part in a highly detailed and amazingly successful program Careful observation and analysis have told us much about limitations on the accurate measurement of distance It is not easy to get busy people to tell others clearly and in detail how they have solved important problems Joseph H Yuen and the other contributors to this book are to be commended for the time and care they have devoted to explicating one vital aspect of a great adventure of mankind

Deep Space Telecommunications Systems Engineering Joseph H. Yuen, 2014-01-15 **Deep Space**

Telecommunications Systems Engineering Joseph Yuen, 2012-07-12 A vital often predominant function in every space mission is that of communications From the moment of launch the only connection between spacecraft and earth is the communications systems This system is responsible for sending scientific data back to earth in the specified quality and quantity together with engineering data reporting the condition of the spacecraft The communications system also provides the capability of tracking the spacecraft and commanding it to take certain actions Without an effective communications system a successful mission would not be possible Deep Space Telecommunications Systems Engineering National Aeronautics and Space Administration, Yuen, Joseph H., 2014-01-18 A vital often predominant function in every space mission is that of communications From the moment of launch the only connection between spacecraft and earth is the communications system This system is responsible for sending scientific data back to earth in the specified quality and quantity together with engineering data reporting the condition of the spacecraft The communications system also provides the capability of tracking the spacecraft and commanding it to take certain actions Without an effective communications system a successful mission would not be possible To appreciate the challenge that one faces in designing such systems for planetary exploration one must consider the enormous distances that are involved Voyager spacecraft for example are now more than one billion miles from earth tens of thousands of times farther than the most distant communications satellite and continue to transmit data and respond to commands The necessity of minimizing spacecraft weight presents a major problem

to communications systems designers The far reaching implications of spacecraft weight become apparent as the designer considers the problems of providing power supply antennas and other necessary devices and supporting elements Another important challenge is the extreme reliability required of the communications system on the spacecraft Once the spacecraft is launched on board failures can no longer be repaired except by use of redundant systems System degradation due to aging imperfect antenna pointing or imperfect trajectories can be expected and the designer must know how much degradation to expect from each case and must design the equipment the operations and the procedures of data analysis accordingly The telecommunications engineer works with the most precise and advanced techniques of the engineering world Since the launch in 1958 of Explorer I the first free world satellite there has been substantial progress in improving communications capability Even though substantial progress has been made in the last 25 years space exploration is still in its infancy There has been no exploration beyond the solar system There are numerous galaxies and billions of stars to investigate Bigger and tougher challenges are still ahead more exciting times are yet to come These challenges will undoubtedly call for more advanced telecommunications systems to transmit information to and from deep space Telecommunications technology is still in its infancy Through the years a number of telecommunications design techniques procedures and analyses contributing to the success of deep space exploration missions have been developed and applied The purpose of this book is to provide descriptive and analytical information useful for the optimum design specification and performance evaluation of deep space telecommunications systems The book emphasizes system performance information Long tedious derivations are not included The book should serve to acquaint new telecommunications engineers with the techniques available to them and should summarize for the experienced engineers the analyses and information necessary for their work It also provides a background for understanding the interface between the Deep Space Network and the spacecraft and is intended to facilitate the conceptual designs and analyses for the enhancement of telecommunications performance and assurance of compatibility between spacecraft and ground system capabilities

Deep Space Telecommunications Systems Engineering Jet Propulsion Laboratory (U.S.),1983

Deep Space Communications Jim Taylor,2016-08-16 DEEP SPACE COMMUNICATIONS A COLLECTION OF SOME OF THE JET PROPULSION LABORATORY S SPACE MISSIONS SELECTED TO REPRESENT THE PLANETARY COMMUNICATIONS DESIGNS FOR A PROGRESSION OF VARIOUS TYPES OF MISSIONS The text uses a case study approach to show the communications link performance resulting from the planetary communications design developed by the Jet Propulsion Laboratory JPL This is accomplished through the description of the design and performance of six representative planetary missions These six cases illustrate progression through time of the communications system s capabilities and performance from 1970s technology to the most recent missions The six missions discussed in this book span the Voyager for fly bys in the 1970s Galileo for orbiters in the 1980s Deep Space 1 for the 1990s Mars Reconnaissance Orbiter MRO for planetary orbiters Mars Exploration Rover MER for planetary rovers in the 2000s and the MSL rover in the

2010s Deep Space Communications Provides an overview of the Deep Space Network and its capabilities Examines case studies to illustrate the progression of system design and performance from mission to mission and provides a broad overview of the mission systems described Discusses actual flight mission telecommunications performance of each system Deep Space Communications serves as a reference for scientists and engineers interested in communications systems for deep space telecommunications link analysis and design control Technologies for Deep Space Exploration Zezhou Sun, 2020-08-14 This book offers readers essential insights into system design for deep space probes and describes key aspects such as system design orbit design telecommunication GNC thermal control propulsion aerobraking and scientific payload Each chapter includes the basic principles requirements analysis procedures equations and diagrams as well as practical examples that will help readers to understand the research on each technology and the major concerns when it comes to developing deep space probes An excellent reference resource for researchers and engineers interested in deep space exploration it can also serve as a textbook for university students and those at institutes involved in aerospace

Radiometric Tracking Techniques for Deep-Space Navigation Catherine L. Thornton, James S. Border, 2005-02-18 Radiometric Tracking Techniques for Deep Space Navigation focuses on a broad array of technologies and concepts developed over the last four decades to support radio navigation on interplanetary spacecraft In addition to an overview of Earth based radio navigation techniques the book includes a simplified conceptual presentation of each radiometric measurement type its information content and the expected measurement accuracy The methods described for both acquiring and calibrating radiometric measurements also provide a robust system to support guidance and navigation for future robotic space exploration **Large Antennas of the Deep Space Network** William A. Imbriale, 2005-02-04 An important historical look at the space program's evolving telecommunications systems Large Antennas of the Deep Space Network traces the development of the antennas of NASA's Deep Space Network DSN from the network's inception in 1958 to the present It details the evolution of the large parabolic dish antennas from the initial 26 m operation at L band 960 MHz through the current Ka band 32 GHz systems Primarily used for telecommunications these antennas also support radar and radio astronomy observations in the exploration of the solar system and the universe In addition the author also offers thorough treatment of the analytical and measurement techniques used in design and performance assessment Large Antennas of the Deep Space Network represents a vital addition to the literature in that it includes NASA funded research that significantly impacts on deep space telecommunications Part of the prestigious JPL Deep Space Communications and Navigation Series it captures fundamental principles and practices developed during decades of deep space exploration providing information that will enable antenna professionals to replicate radio frequencies and optics designs Designed as an introduction for students in the field as well as a reference for advanced practitioners the text assumes a basic familiarity with engineering and mathematical concepts and technical terms 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.

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Table of Contents Deep Space Telecommunications Systems Engineering

1. Understanding the eBook Deep Space Telecommunications Systems Engineering
 - The Rise of Digital Reading Deep Space Telecommunications Systems Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Deep Space Telecommunications Systems Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Deep Space Telecommunications Systems Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Deep Space Telecommunications Systems Engineering
 - Personalized Recommendations
 - Deep Space Telecommunications Systems Engineering User Reviews and Ratings
 - Deep Space Telecommunications Systems Engineering and Bestseller Lists
5. Accessing Deep Space Telecommunications Systems Engineering Free and Paid eBooks
 - Deep Space Telecommunications Systems Engineering Public Domain eBooks
 - Deep Space Telecommunications Systems Engineering eBook Subscription Services
 - Deep Space Telecommunications Systems Engineering Budget-Friendly Options

6. Navigating Deep Space Telecommunications Systems Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Deep Space Telecommunications Systems Engineering Compatibility with Devices
 - Deep Space Telecommunications Systems Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Deep Space Telecommunications Systems Engineering
 - Highlighting and Note-Taking Deep Space Telecommunications Systems Engineering
 - Interactive Elements Deep Space Telecommunications Systems Engineering
8. Staying Engaged with Deep Space Telecommunications Systems Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Deep Space Telecommunications Systems Engineering
9. Balancing eBooks and Physical Books Deep Space Telecommunications Systems Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Deep Space Telecommunications Systems Engineering
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Deep Space Telecommunications Systems Engineering
 - Setting Reading Goals Deep Space Telecommunications Systems Engineering
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Deep Space Telecommunications Systems Engineering
 - Fact-Checking eBook Content of Deep Space Telecommunications Systems Engineering
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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web jan 19 2015 abstract background the term joint modelling is used in the statistical literature to refer to methods for simultaneously analysing longitudinal measurement