

JPL DEEP SPACE COMMUNICATIONS AND NAVIGATION SERIES

RADIOMETRIC TRACKING TECHNIQUES FOR DEEP SPACE NAVIGATION



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Radiometric Tracking Techniques For Deep Space Navigation

Catherine L. Thornton, James S. Border



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Radiometric Tracking Techniques for Deep-Space Navigation Catherine L. Thornton, James S. Border, 2003-02-05
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 [Radiometric Tracking Techniques for Deep-Space Navigation](#) Catherine L.

Thornton, James S. Border, United States. National Aeronautics and Space Administration, Jet Propulsion Laboratory (U.S.), 2000 **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 *Radio Science Techniques for Deep Space Exploration* Sami W. Asmar, 2022-03-23

Explore the development and state of the art in deep space exploration using radio science techniques In Radio Science Techniques for Deep Space Exploration accomplished NASA JPL researcher and manager Sami Asmar delivers a multi disciplinary exploration of the science technology engineering mission operations and signal processing relevant to deep space radio science The book discusses basic principles before moving on to more advanced topics that include a wide variety of graphical illustrations and useful references to publications by experts in their respective fields Complete explanations of changes in the characteristics of electromagnetic waves and the instrumentation and technology used in scientific experiments are examined Radio Science Techniques for Deep Space Exploration offers answers to the question of how to explore the solar system with radio links and better understand the interior structures atmospheres rings and surfaces of other planets The author also includes Thorough introductions to radio science techniques and systems needed to investigate planetary atmospheres rings and surfaces Comprehensive explorations of planetary gravity and interior structures as well as relativistic and solar studies Practical discussions of instrumentation technologies and future directions in radio science techniques Perfect for students and professors of physics astronomy planetary science aerospace engineering and communications engineering Radio Science Techniques for Deep Space Exploration will also earn a place in the libraries of engineers and scientists in the aerospace industry **Spacecraft Optical Navigation** William M. Owen,

Jr.,2024-10-11 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

Deep Space Optical Communications Hamid Hemmati, 2006-06-05 A quarter century of research into deep space and near Earth optical communications This book captures a quarter century of research and development in deep space optical communications from the Jet Propulsion Laboratory JPL Additionally it presents findings from other optical communications research groups from around the world for a full perspective Readers are brought up to date with the latest developments in optical communications technology as well as the state of the art in component and subsystem technologies fundamental limitations and approaches to develop and fully exploit new technologies The book explores the unique requirements and technologies for deep space optical communications including Technology overview link and system design drivers Atmospheric transmission propagation and reception issues Flight and ground terminal architecture and subsystems Future prospects and applications including navigational tracking and light science This is the first book to specifically address deep space optical communications With an increasing demand for data from planetary spacecraft and other sources it is essential reading for all optical communications telecommunications and system engineers as well as technical managers in the aerospace industry It is also recommended for graduate students interested in deep space communications

Position, Navigation, and Timing Technologies in the 21st Century Y. Jade Morton, Frank van Diggelen, James J. Spilker, Jr., Bradford W. Parkinson, Sherman Lo, Grace Gao, 2021-01-13 Covers the latest developments in PNT technologies including integrated satellite navigation sensor systems and civil applications Featuring sixty four chapters that are divided into six parts this two volume work provides comprehensive coverage of the state of the art in satellite based position navigation and timing PNT technologies and civilian applications It also examines alternative navigation technologies based on other signals of opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications Volume 1 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications contains three parts and focuses on the satellite navigation systems technologies and engineering and scientific applications It starts with a historical perspective of GPS development and other related PNT development Current global and regional navigation satellite systems GNSS and RNSS their inter operability signal quality monitoring satellite orbit and time synchronization and ground and satellite based augmentation systems are examined Recent progresses in satellite navigation receiver technologies and challenges for operations in multipath rich urban environment in handling spoofing and interference and in ensuring PNT integrity are addressed A section on satellite navigation for engineering and scientific applications finishes off the volume Volume 2 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications consists of three parts and addresses PNT using alternative signals and sensors and integrated PNT technologies for consumer and commercial applications It looks at PNT

using various radio signals of opportunity atomic clock optical laser magnetic field celestial MEMS and inertial sensors as well as the concept of navigation from Low Earth Orbiting LEO satellites GNSS INS integration neuroscience of navigation and animal navigation are also covered The volume finishes off with a collection of work on contemporary PNT applications such as survey and mobile mapping precision agriculture wearable systems automated driving train control commercial unmanned aircraft systems aviation and navigation in the unique Arctic environment In addition this text Serves as a complete reference and handbook for professionals and students interested in the broad range of PNT subjects Includes chapters that focus on the latest developments in GNSS and other navigation sensors techniques and applications Illustrates interconnecting relationships between various types of technologies in order to assure more protected tough and accurate PNT Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications will appeal to all industry professionals researchers and academics involved with the science engineering and applications of position navigation and timing technologies pnt21book.com

Proceedings of the 27th Conference of Spacecraft TT&C Technology in China Rongjun Shen, Weiping Qian, 2014-10-06 This book collects selected papers from the 27th Conference of Spacecraft TT C Technology in China held in Guangzhou on November 9 12 2014 The book features state of the art studies on spacecraft TT C in China with the theme of Wider Space for TT C To meet requirements of new space endeavors especially China's deep space programs China's spacecraft TT C systems shall go farther measure more accurately and control better with higher efficacy Researchers and engineers in the field of aerospace engineering and communication engineering can benefit from the book

CubeSat Antenna Design Nacer Chahat, 2021-01-07 Presents an overview of CubeSat antennas designed at the Jet Propulsion Laboratory JPL CubeSats nanosatellites built to standard dimensions of 10cm x 10 cm x cm are making space based Earth science observation and interplanetary space science affordable accessible and rapidly deployable for institutions such as universities and smaller space agencies around the world CubeSat Antenna Design is an up to date overview of CubeSat antennas designed at NASA's Jet Propulsion Laboratory JPL covering the systems engineering knowledge required to design these antennas from a radio frequency and mechanical perspective This authoritative volume features contributions by leading experts in the field providing insights on mission critical design requirements for state of the art CubeSat antennas and discussing their development capabilities and applications The text begins with a brief introduction to CubeSats followed by a detailed survey of low gain medium gain and high gain antennas Subsequent chapters cover topics including the telecommunication subsystem of Mars Cube One MarCO the enabling technology of Radar in a CubeSat RainCube the development of a one meter mesh reflector for telecommunication at X and Ka band for deep space missions and the design of multiple metasurface antennas Written to help antenna engineers to enable new CubeSat NASA missions this volume Describes the selection of high gain CubeSat antennas to address specific mission requirements and constraints for instruments or telecommunication Helps readers learn

how to develop antennas for future CubeSat missions Provides key information on the effect of space environment on antennas to inform design steps Covers patch and patch array antennas deployable reflectarray antennas deployable mesh reflector inflatable antennas and metasurface antennas CubeSat Antenna Design is an important resource for antenna microwave engineers aerospace systems engineers and advanced graduate and postdoctoral students wanting to learn how to design and fabricate their own antennas to address clear mission requirements

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