

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

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Radiometric Tracking Techniques For Deep Space Navigation:

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

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Proceedings of the Ninth Asia-Pacific International

Conference on Gravitation and Astrophysics Jun Luo, Ze-Bing Zhou, Hsien-Chi Yeh, 2010 The International Conference on Gravitation and Astrophysics ICGA is to serve the needs of research workers in gravitation and astrophysics in the Asia Pacific region This proceedings covers a wide and hot area of research including cosmological model gravitational lensing precision measurement of G CMB Kerr space time gravitational wave the LISA LIGO LCGT projects in Japan black hole dark matter Yangndash Mills gravity neutron star type Ia supernovae quasi local energy anti de Sitter space time *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 [Hayabusa2 Asteroid Sample Return Mission](#) Masatoshi Hirabayashi, Yuichi Tsuda, 2022-04-14 Hayabusa2 Asteroid Sample Return Mission Technological Innovation and Advances covers the second Japanese asteroid sample return mission The purpose of the mission is to survey the asteroid Ryugu s surface features touch down on the asteroid form an artificial crater by shooting an impactor and collect sample materials This book covers these operations along with everything known about key technologies hardware and ground systems upon Hayabusa2 s return to Earth in 2020 This book is the definitive reference on the mission and provides space and planetary scientists with information on established technologies to further advance the knowledge and technologies in future space exploration missions 2023 PROSE Awards Winner Finalist Chemistry Physics Astronomy and Cosmology Association of American Publishers Broadly and comprehensively covers technologies necessary for space

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