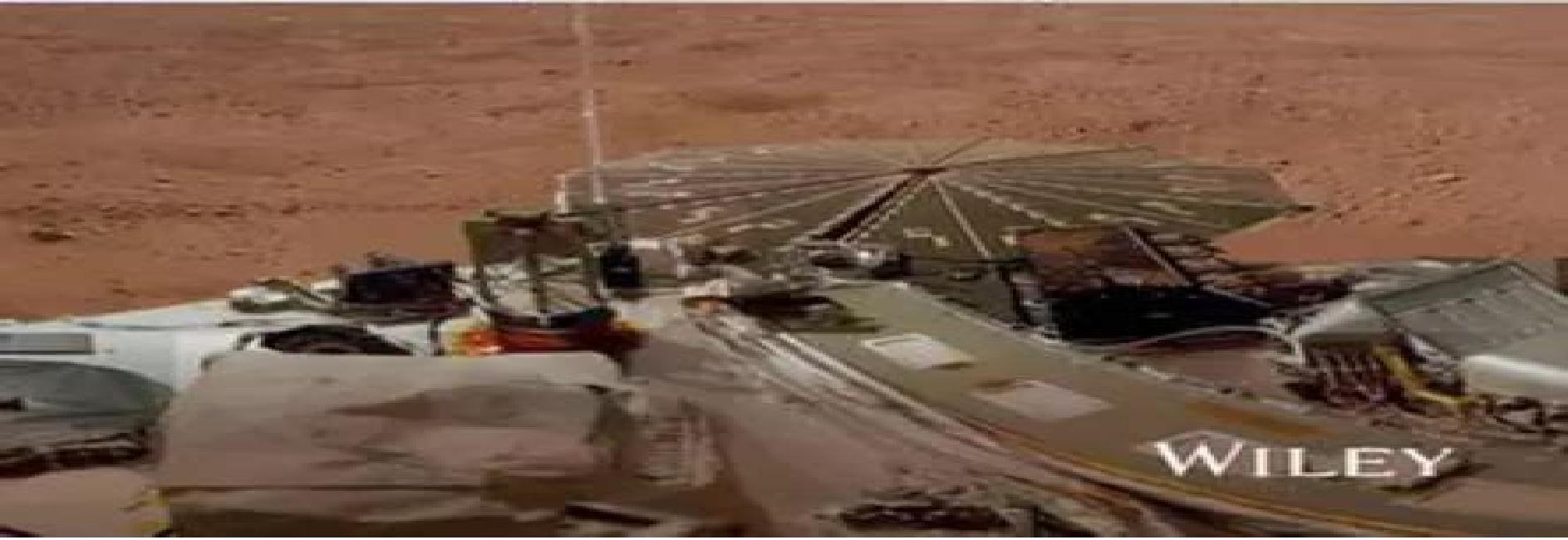


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# Optical Payloads for Space Missions



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# Optical Payloads For Space Missions

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Optical Payloads for Space Missions Shen-En Qian, 2016-01-26 Optical Payloads for Space Missions is a comprehensive collection of optical spacecraft payloads with contributions by leading international rocket scientists and instrument builders. Covers various applications including earth observation communications navigation weather and science satellites and deep space exploration. Each chapter covers one or more specific optical payload. Contains a review chapter which provides readers with an overview on the background current status trends and future prospects of the optical payloads. Provides information on the principles of the optical spacecraft payloads missions background motivation and challenges as well as the scientific returns benefits and applications

**Advances in Hyperspectral Image Processing Techniques** Chein-I Chang, 2022-11-22 Advances in Hyperspectral Image Processing Techniques Authoritative and comprehensive resource covering recent hyperspectral imaging techniques from theory to applications. Advances in Hyperspectral Image Processing Techniques is derived from recent developments of hyperspectral imaging HSI techniques along with new applications in the field covering many new ideas that have been explored and have led to various new directions in the past few years. The work gathers an array of disparate research into one resource and explores its numerous applications across a wide variety of disciplinary areas. In particular it includes an introductory chapter on fundamentals of HSI and a chapter on extensive use of HSI techniques in satellite on orbit and on board processing to aid readers involved in these specific fields. The book's content is based on the expertise of invited scholars and is categorized into six parts. Part I provides general theory. Part II presents various Band Selection techniques for Hyperspectral Images. Part III reviews recent developments on Compressive Sensing for Hyperspectral Imaging. Part IV includes Fusion of Hyperspectral Images. Part V covers Hyperspectral Data Unmixing. Part VI offers different views on Hyperspectral Image Classification. Specific sample topics covered in Advances in Hyperspectral Image Processing Techniques include Two fundamental principles of hyperspectral imaging. Constrained band selection for hyperspectral imaging and class information based band selection for hyperspectral image classification. Restricted entropy and spectrum properties for hyperspectral imaging and endmember finding in compressively sensed band domain. Hyperspectral and LIDAR data fusion fusion of band selection methods for hyperspectral imaging and fusion using multi dimensional information. Advances in spectral unmixing of hyperspectral data and fully constrained least squares linear spectral mixture analysis. Sparse representation based hyperspectral image classification. collaborative hyperspectral image classification. class feature weighted hyperspectral image classification. target detection approach to hyperspectral image classification. With many applications beyond traditional remote sensing ranging from defense and intelligence to agriculture to forestry to environmental monitoring to food safety and inspection to medical imaging. Advances in Hyperspectral Image Processing Techniques is an essential resource on the topic for industry professionals researchers academics and graduate students working in the field

**Space Mission Analysis and Design** Wiley J. Larson, James Richard Wertz, 1992 This

volume appropriate as a textbook for either advanced undergraduate or beginning graduate courses or as a reference for those already working in space technology addresses the art and science of preliminary space mission design beginning with a blank sheet of paper and creating a space mission to meet a set of broad often poorly defined objectives This revised and updated edition adds new sections on defining the overall mission concept subject trades guidance and navigation and applying the mission analysis and design process to reduce cost and risk in later program stages This volume also inaugurates the Space Technology Series a cooperative activity of the US Dept of Defense and NASA Annotation copyright by Book News Inc Portland OR **Hyperspectral Satellites and System Design** Shen-En Qian,2020-04-02 Hyperspectral Satellites and System Design is the first book on this subject It provides a systematic analysis and detailed design of the entire development process of hyperspectral satellites Derived from the author's 25 year firsthand experience as a technical lead of space missions at the Canadian Space Agency the book offers engineers scientists and decision makers detailed knowledge and guidelines on hyperspectral satellite system design trade offs performance modeling and simulation optimization from component to system level subsystem design and implementation strategies This information will help reduce the risk shorten the development period and lower the cost of hyperspectral satellite missions This book is a must have reference for professionals in developing hyperspectral satellites and data applications It is also an excellent introductory book for early practitioners and students who want to learn more about hyperspectral satellites and their applications **The National Symposium and Workshop on Optical Platforms** Charles L. Wyman,1984

**Technology for Large Space Systems** ,1987 **Space Station Systems: A Bibliography with Indexes**  
**(supplement 3)** ,1987 *Space Station Systems* ,1986 *Optical Systems Contamination and Degradation* ,1998  
*Astrodynamicics 2003* ,2004 **Space Station Systems: A Bibliography with Indexes (supplement 8)** ,1988  
**X-ray Optics, Instruments, and Missions** ,1999 **Shuttle Optical Environment** Edgar R. Miller,Giovanni G. Fazio,1982 **NASA SP.** ,1991 IGARSS '84 T. D. Guyenne,J. J. Hunt,1984 Proceedings volume Vol 1 contains sections on Metric Camera MOMS Microwave and Optics Landsat 4 TM Microwave Monitoring of Vegetation Microwave Monitoring in Geology Pedology Hydrology Multitemporal Monitoring Land Use Multisensor Monitoring Geology Pedology Hydrology Sea Surface Waves and Winds Marginal Ice Zone Remote Sensing of the Atmosphere by Microwave Radiometers Optical IR Radar Sensors Electromagnetic Probing Altimetry and Seismology Vol 2 contains sections on System Components Data Correction Data Evaluation Optical Sensor Data Air Pollution Water Pollution Land Sea Observation Active Sensors and ERS 1 **North American Space Directory** ,2004 International Aerospace Abstracts ,1999 **NASA Technical Memorandum** ,1963  
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