

4 3 Telemetry And Command Processing System For Experiments

Computer Aided Software Engineering brings together in one place important contributions and up-to-date research results in this important area. Computer Aided Software Engineering serves as an excellent reference, providing insight into some of the most important research issues in the field.

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 missions systems described Discusses actual flight mission telecom 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.

Hearings

Cumulated Index Medicus

Space Station Systems

Hearings Before the United States House Committee on Foreign Affairs, Subcommittee on Africa, Eighty-Ninth Congress, Second Session

U.S. Government Research Reports

MEO/LEO Constellations : U.S. Laws, Policies, and Regulations on Orbital Debris Mitigation

A comprehensive reference covering optical payloads in space missions, with contributions from global experts * 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 optical payloads

Research has been conducted into the problems of avoiding collision between separated payloads and spent rocket motors due to post burnout thrust and into the problem of contamination of scientific instrumentation due to outgassing of the smoldering insulation. In order to measure this post burnout thrust, a payload instrument module was separated from an instrumented Black Brant VC Rocket in the exoatmosphere. In addition to measuring accelerations and velocities, the spent motor was observed by a TV camera on board the command attitude controlled payload module. Analysis shows that the payload separated cleanly from the vehicle at a relative separation velocity of 2.25 ft/sec (0.69 m/sec). However, the residual thrust of the spent motor overcame this differential, catching up to the payload 37 sec after separation and continuing on a parallel velocity vector at about 3.37 ft/sec (1.03 m/sec). (Author).

Military Construction Appropriations for 1968

NASA Technical Report

International Conference, ICAIC 2011, Xi'an, China, August 20-21, 2011, Proceedings, Part IV

NASA Historical Data Book: Programs and projects, 1958-1968

Space Mission Success Through Testing

A Bibliography with Indexes. Supplement 4

This volume contains the authors' summaries of their papers on the Space Telescope presented at the 21st annual meeting of the American Astronautical Society at Denver, Colo., Aug. 26-28, 1975.

Spacecraft TT&C and Information Transmission Theory and Technologies introduces the basic theory of spacecraft TT&C (telemetry, track and command) and information transmission. Combining TT&C and information transmission, the book presents several technologies for continuous wave radar including measurements for range, range rate and angle, analog and digital information transmissions, telecommand, telemetry, remote sensing and spread spectrum TT&C. For special problems occurred in the channels for TT&C and information transmission, the book represents radio propagation features and its impact on orbit measurement accuracy, and the effects caused by rain attenuation, atmospheric attenuation and multi-path effect, and polarization composition technology. This book can benefit researchers and engineers in the field of spacecraft TT&C and communication systems. Liu Jiaxing is a professor at The 10th Institute of China Electronics Technology Group Corporation.

FCC Record

TV & Video Engineer's Reference Book

A Comprehensive Compilation of Decisions, Reports, Public Notices, and Other Documents of the Federal Communications Commission of the United States

18th Space Simulation Conference

Instruments and Spacecraft, October 1957-March 1965

Journal of the National Institute of Information and Communications Technology

Reducing the cost of space program interests people more and more nowadays due to the concerns of budget limitation and commercialization of space technology. The Proceedings of the 3rd International Symposium on Reducing the Cost of Spacecraft Ground Systems and Operations bring together papers contributed by the authors representing the research organizations, academic institutions and commercial sectors of 10 countries around the world. The papers encompass the subject areas in mission planning and operation, TT&C systems, mission control centers, and mini and small satellite support, highlighting the issues concerned by the researchers and engineers involved in a wide range of space programs and space industries.

Space vehicles have become increasingly complex in recent years, and the number of missions has multiplied as a result of extending frontiers in the exploration of our planetary system and the universe beyond. The advancement of automatic control in aerospace reflects these developments. Key areas covered in these proceedings include: the size and complexity of spacecrafts and the increasingly stringent performance requirements to be fulfilled in a harsh and unpredictable environment; the merger of space vehicles and airplanes into space planes to launch and retrieve payloads by reusable winged vehicles; and the demand to increase space automation and autonomy to reduce human involvement as much as possible in manned, man-tended and unmanned missions. This volume covers not only the newly evolving key technologies but also the classical issues of guidance, navigation and control.

Government Reports Announcements

Missile and Space Ground Support Operations

English-Russian

Selected Papers from the 12th IFAC Symposium, Ottobrunn, Germany, 7 - 11 September 1992

NASA Authorization for Fiscal Year 1969

Hearings, Eighty-ninth Congress, Second Session. January 25, 26, and 27, 1966

NASA Technical ReportLandsat Data Users HandbookLandsat Data Users HandbookTechnical Abstract BulletinScientific and Technical Aerospace ReportsElsevier's Dictionary of Technical AbbreviationsEnglish-RussianElsevier

TV & Video Engineer's Reference Book presents an extensive examination of the basic television standards and broadcasting spectrum. It discusses the fundamental concepts in analogue and digital circuit theory. It addresses studies in the engineering mathematics, formulas, and calculations. Some of the topics covered in the book are the conductors and insulators, passive components, alternating current circuits; broadcast transmission; radio frequency propagation; electron optics in cathode ray tube; color encoding and decoding systems; television transmitters; and remote supervision of unattended transmitters. The definition and description of diagnostics in computer controlled equipment are fully covered. In-depth accounts of the microwave radio relay systems are provided. The general characteristics of studio lighting and control are completely presented. A chapter is devoted to video tape recording. Another section focuses on the mixers and special effects generators. The book can provide useful information to technicians, engineers, students, and researchers.

Scientific and Technical Aerospace Reports

Applied Informatics and Communication, Part IV

Technical Abstract Bulletin

Space Measurements Survey

Elsevier's Dictionary of Technical Abbreviations

Hearings Before the Subcommittee on NASA Oversight of the Committee on Science and Astronautics, U. S. House of Representatives, Eighty-eighth Congress, Second Session ...

This special report focuses on the emerging legal regime for orbital debris mitigation. It contains an overview of the relevant laws, policies, and regulations on orbital debris mitigation and aims to serve as a useful reference for the space community.

The English-Russian dictionary of technical abbreviations contains nearly 65,000 entries covering various fields and subfields of engineering and technology. Abbreviations are widely used in technical literature and, as a rule, they create difficulties for the reader. Numerous abbreviations are used in technical literature dealing with space, agriculture, electronics, computer science, chemistry, thermodynamics, nuclear engineering, refrigeration, cryogenics, machinery, aviation, business, accounting, optics, radio electronics, and military fields, including abbreviations used on a wide scale by the Navy, Airforce and the Army. In many instances the same abbreviation is used in most different fields of engineering and technology though depicting different notions.

There are cases when the same abbreviation may have dozen of meanings, depending on the specific field of engineering. The entries are arranged in alphabetical order. A wide range of literature has been explored for the selection and translation of the abbreviations. The dictionary has been compiled by comparing parallel texts in both languages, and by consultation with experts. This publication will be invaluable to the personnel of designing bureaus and research institutions, and also to translators, scientists, researchers, designers and university personnel dealing with various fields of engineering and technology. approx. 125,000 terms

Instrumentation Papers

Post Burnout Thrust Measurements

Hearings Before a Subcommittee ... Ninetieth Congress, First Session

Reducing the Cost of Spacecraft Ground Systems and Operations

Rocket Measurements of Upper Atmospheric Nitric Oxide and Their Consequences to the Lower Ionosphere

Independent Offices Appropriations for 1965

The five volume set CCIS 224-228 constitutes the refereed proceedings of the International conference on Applied Informatics and Communication, ICAIC 2011, held in Xi'an, China in August 2011. The 446 revised papers presented were carefully reviewed and selected from numerous submissions. The papers cover a broad range of topics in computer science and interdisciplinary applications including control, hardware and software systems, neural computing, wireless networks, information systems, and image processing.

Committee Serial No. 3. Hearing includes California Institute of Technology Jet Propulsion Laboratory reports "Ranger VI Failure Analysis and Supporting Investigations," March 27, 1964 (p. 247-457); "Ranger 5 Flight Report," Jan. 4, 1963 (p. 501-584); "Ranger Block III Project Development Plan," Oct. 31, 1963 (p. 669-777).

Spacecraft TT&C and Information Transmission Theory and Technologies

NASA technical note

U.S.-South African Relations

Optical Payloads for Space Missions

NASA Technical Memorandum

Hearings Before the Committee on Aeronautical and Space Sciences, United States Senate, Ninetieth Congress, Second Session on S. 2918, a Bill to Authorize Appropriations to the National Aeronautics and Space Administration for Research and Development, Construction of Facilities, and Administrative Operations ; and for Other Purposes, April 24, 25, and 30, 1968