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Rex Hall and Dave Shayler provide a unique history of the Soyuz spacecraft programme from conception, through development to its use, detailed in the only English language book available on this topic. Planned for publication in 2003, it will celebrate 40 years since the original concept of the Soyuz craft.

This unique book presents a historical and philatelic survey of Earth exploration from space. It covers all areas of research in which artificial satellites have contributed in designing a new image of our planet and its environment: the atmosphere and ionosphere, the magnetic field, radiation belts and the magnetosphere, weather, remote sensing, mapping of the surface, observation of the oceans and marine environments, geodesy, and the study of life and ecological systems. Stamping the Earth from Space presents the results obtained with the thousands of satellites launched by the two former superpowers, the Soviet Union and the United States, and also those of the many missions carried out by the ESA, individual European countries, Japan, China, India, and the many emerging space nations. Beautifully illustrated, it contains almost 1100 color reproductions of philatelic items. In addition to topical stamps and thematic postal documents, the book provides an extensive review of astrophilatelic items. The

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most important space missions are documented through event covers and cards canceled at launch sites, tracking stations, research laboratories, and mission control facilities.

The updated and expanded third edition of this book focuses on the multi-disciplinary coupling between flight-vehicle hardware alternatives and enabling propulsion systems. It discusses how to match near-term and far-term aerospace vehicles to missions and provides a comprehensive overview of the subject, directly contributing to the next-generation space infrastructure, from space tourism to space exploration. This holistic treatment defines a mission portfolio addressing near-term to long-term space transportation needs covering sub-orbital, orbital and escape flight profiles. In this context, a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access. A best-practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission. This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike.

“The Soyuz Launch Vehicle” tells the story, for the first time in a

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single English-language book, of the extremely successful Soyuz launch vehicle. Built as the world's first intercontinental ballistic missile (ICBM), Soyuz was adapted to launch not only Sputnik but also the first man to orbit Earth, and has been in service for over fifty years in a variety of forms. It has launched all Soviet manned spacecraft and is now the only means of reaching the International Space Station. It was also the workhorse for launching satellites and space probes and has recently been given a second life in French Guiana, fulfilling a commercial role in a joint venture with France. No other launch vehicle has had such a long and illustrious history. This remarkable book gives a complete and accurate description of the two lives of Soyuz, chronicling the recent cooperative space endeavors of Europe and Russia. The book is presented in two parts: Christian Lardier chronicles the "first life" in Russia while Stefan Barensky explores its "second life," covering Starsem, the Franco-Russian company and implementation of technology for the French Guiana Space Agency by ESA. Part One has been developed from Russian sources, providing a descriptive approach to very technical issues. The second part of the book tells the contemporary story of the second life of Soyuz, gathered from Western sources and interviews with key protagonists. "The Soyuz Launch Vehicle" is a detailed description of a formidable human adventure, with its political, technical, and commercial

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ramifications. At a time when a new order was taking shape in the space sector, the players being the United States, Russia, Europe and Asia, and when economic difficulties sometimes made it tempting to give up, this book reminds us that in the global sector, nothing is impossible.

Looks forward to the completion of the ISS, possibility of return to the moon, manned flights to Mars, and the prospect of safety and rescue far beyond. Describes the role of Mission Control and recovery forces in ensuring the support from the ground to the crew in space. Provides a unique range of historic archive of material on the Russian programme. Presents a review of the Columbia accident, its investigation and various proposed rescue scenarios. Details escape systems devised for rocket research aircraft, early manned spacecraft, abort and recovery options from Earth orbit, and from lunar distance. Demonstrates that crew safety has been a factor in planning and mounting on all manned spaceflights.

“Space Sleuths of the Cold War” relates for the first time the inside story of the amateur spies who monitored the Soviet space program during the Cold War. It is written by many of those “space sleuths” themselves and chronicles the key moments in their discovery of hidden

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history. This book shows that dedicated observers were often better than professionals at interpreting that information coming out of the USSR during the dark days of the Cold War. This book takes a unique approach to the history of Soviet spaceflight - looking at the personal stories of some of the researchers as well as the space secrets the Soviets tried to keep hidden. The fascinating account often reads like a Cold War espionage novel. "Space Sleuths of the Cold War" includes an impressive list of contributors, such as: Editor Dominic Phelan, giving an overall history of the Cold War hunt for Soviet space secrets. Space writer Brian Harvey reveals his own personal search through official Soviet radio and magazines to find out what they were (and weren't) revealing to the outside world at the height of the space race. Sven Grahn from Sweden details his own 40 year quest to understand what was happening on the other side of the Iron Curtain. Professional American historian Asif Siddiqi explores his own adventures in the once secret Russian archives - often seeing documents never before read by Westerners. Dutch cosmonaut researcher Bert Vis provides an inside account of the Yuri Gagarin training center in Moscow. Belgian researcher Bart Hendrickx's details his important translation of the 1960s' diaries of cosmonaut team leader General Kamanin. Pioneer space sleuth James Oberg's shares his memories of his own notable 'scoops.' Paris-based writer Christian

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Lardier recounts the efforts of French space sleuths – whose work was frequently overlooked in the USA and Britain because of the language barrier.

Over the past 35 years more than 100 individual astronauts and cosmonauts have performed nearly 200 EVAs, (spacewalks), either singularly or in teams in Earth orbit, deep space or on the Moon. In 'Walking in Space: Development of Space Walking Techniques' the author, Dave Shayler, shows how hardware and crew members are prepared for, protected and supported during every EVA. He demonstrates how past experiences have led to improved training techniques and how this, in turn, has provided many successes and future developments.

Nanosatellites: Space and Ground Technologies, Operations and Economics Rogerio Atem de Carvalho, Instituto Federal Fluminense, Brazil Jaime Estela, Spectrum Aerospace Group, Germany and Peru Martin Langer, Technical University of Munich, Germany Covering the latest research on nanosatellites Nanosatellites: Space and Ground Technologies, Operations and Economics comprehensively presents the latest research on the fast-developing area of nanosatellites. Divided into three distinct sections, the book begins with a brief history of nanosatellites and introduces nanosatellites technologies and

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payloads, also explaining how these are deployed into space. The second section provides an overview of the ground segment and operations, and the third section focuses on the regulations, policies, economics, and future trends. Key features: Payloads for nanosatellites Nanosatellites components design Examines the cost of development of nanosatellites. Covers the latest policies and regulations. Considers future trends for nanosatellites. Nanosatellites: Space and Ground Technologies, Operations and Economics is a comprehensive reference for researchers and practitioners working with nanosatellites in the aerospace industry.

\* This is the only book that provides the full story of the role of women in space exploration. \* Previously unpublished photographs of various aspects of training and participation in spaceflights are included. \* Personal interviews with female cosmonauts and astronauts. \* Traces the history of female aviation milestones from the early part of the 20th Century to the current space programme.

This volume presents a selection of advanced case studies that address a substantial range of issues and challenges arising in space engineering. The contributing authors are well-recognized researchers and practitioners in space engineering and in applied optimization.

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The key mathematical modeling and numerical solution aspects of each application case study are presented in sufficient detail. Classic and more recent space engineering problems - including cargo accommodation and object placement, flight control of satellites, integrated design and trajectory optimization, interplanetary transfers with deep space manoeuvres, low energy transfers, magnetic cleanliness modeling, propulsion system design, sensor system placement, systems engineering, space traffic logistics, and trajectory optimization - are discussed. Novel points of view related to computational global optimization and optimal control, and to multidisciplinary design optimization are also given proper emphasis. A particular attention is paid also to scenarios expected in the context of future interplanetary explorations. Modeling and Optimization in Space Engineering will benefit researchers and practitioners working on space engineering applications. Academics, graduate and post-graduate students in the fields of aerospace and other engineering, applied mathematics, operations research and optimal control will also find the book useful, since it discusses a range of advanced model development and solution techniques and tools in the context of real-world applications and new challenges.

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