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— said to be extinct
since 1905 ...

Exploration

Rex Hall and Dave
Shayler provide a
unique history of
the Soyuz
spacecraft
programme from
conception, through

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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

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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

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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

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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,

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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

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

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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

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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

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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

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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

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essential capability
sought after by
technology
forecasters and
strategic planners
alike.

Looks forward to
the completion of
the ISS, possibility
of return to the
moon, manned
flights to Mars, and
the prospect of

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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.

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Presents a review of the Columbia spacecraft 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

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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

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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 history. This book shows that dedicated observers

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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

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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

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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)

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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

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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

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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

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Christian 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

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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

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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

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Successes and

future

developments.

Nanosatellites:

Space and Ground

Technologies,

Operations and

Economics Rogerio

Atem de Carvalho,

Instituto Federal

Fluminense, Brazil

Jaime Estela,

Spectrum

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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

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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 payloads, also

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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:

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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:

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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

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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. *

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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

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challenges arising in space engineering. The contributing authors are well-recognized researchers and practitioners in space engineering and in applied optimization. The key mathematical modeling and numerical solution aspects of each

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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

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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

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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

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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

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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

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development and
solution techniques
and tools in the
context of real-
world applications
and new challenges.

This remarkable
book gives a
comprehensive
account of the
longest manned
space mission of
the time. It details

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for the first time
the people involved
and the crews
assigned to operate
the first space
station Salyut. The
book portrays the
selection of the
crews, dramatic
flights and tragedy
of Soyuz 11.
Biographies of the
Soyuz 11
cosmonauts are

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published for the first time in English. The book relates discussions between the key personnel, and investigates the causes of the tragedy. The book ends with memories of all those affected by the DOS program and the tragedy of Soyuz 11

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and looks forward
to a continuation of
the historic mission
of Salyut.

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