



Space And Spacecraft

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Space And Spacecraft:

To Orbit and Back Again Davide Sivoletta, 2013-08-27 The Space Shuttle has been the dominant machine in the U S space program for thirty years and has generated a great deal of interest among space enthusiasts and engineers This book enables readers to understand its technical systems in greater depth than they have been able to do so before The author describes the structures and systems of the Space Shuttle and then follows a typical mission explaining how the structures and systems were used in the launch orbital operations and the return to Earth Details of how anomalous events were dealt with on individual missions are also provided as are the recollections of those who built and flew the Shuttle Many photographs and technical drawings illustrate how the Space Shuttle functions avoiding the use of complicated technical jargon The book is divided into two sections Part 1 describes each subsystem in a technical style supported by diagrams technical drawings and photographs to enable a better understanding of the concepts Part 2 examines different flight phases from liftoff to landing Technical material has been obtained from NASA as well as from other forums and specialists Author Davide Sivoletta is an aerospace engineer with a life long interest in space and is ideally qualified to interpret technical manuals for a wider audience This book provides comprehensive coverage of the topic including the evolution of given subsystems reviewing the different configurations and focusing on the solutions implemented

The Best Book of Spaceships Ian Graham, 2000 Illustrations and text describe how humans have tried to learn more about space and some of the equipment and vehicles used to do this

Mars Or Bust! Ailynn Collins, 2019-08 Discusses the challenges that scientists engineers and astronauts must overcome to make their dream of traveling to Mars a reality

The Cosmos on a Shoestring Liam Sarsfield, 1998 Small spacecraft have become popular for a number of reasons most prominently the needs to reduce overall cost be built more quickly and spread mission risks NASA has been challenged with crafting a program that continues to produce meaningful science within the constraints of the available budget Still pound for pound small spacecraft are not precisely inexpensive given the effects of complexity launch costs and a greater degree of risk Historically science spacecraft have demonstrated increasing reliability but this trend might not continue given the shift to managed risk There is generally less money available to smaller programs to test spacecraft functions and operational procedures prior to launch Small spacecraft are also generally less robust Efforts to reduce failure potentials through the application of more reliable components better testing and advanced design techniques should receive greater attention Despite the risks however small spacecraft fulfill important roles in earth science astrophysics space physics and planetary science NASA s current generation of small spacecraft is capable of impressive levels of performance

Faster, Better, Cheaper Howard E. McCurdy, 2003-04-01 This excellent summary of an important part of NASA s history is recommended for all readers Choice In Faster Better Cheaper Low Cost Innovation in the U S Space Program Howard E McCurdy examines NASA s recent efforts to save money while improving mission frequency and performance McCurdy details sixteen missions undertaken as the

twentieth century drew to a close including an orbit of the moon deployment of three space telescopes four Earth orbiting satellites two rendezvous with comets and asteroids and a test of an ion propulsion engine which cost less than the sum traditionally spent on a single conventionally planned planetary mission He shows how these missions employed smaller spacecraft and cheaper technology to undertake less complex and more specific tasks in outer space While the technological innovation and space exploration approach that McCurdy describes is still controversial the historical perspective on its disappointments and triumphs points to ways of developing faster better and cheaper as a management manifesto Readers interested in either the management or economics of complex organizations will find a wealth of material in this well written exposition Fans of space travel like the author himself will also enjoy the behind the scenes look at NASA's operation Enterprise and Society

The Space Environment Alan C. Tribble, 2020-05-05 The breakup of the Space Shuttle Columbia as it reentered Earth's atmosphere on February 1 2003 reminded the public and NASA of the grave risks posed to spacecraft by everything from insulating foam to space debris Here Alan Tribble presents a singular up to date account of a wide range of less conspicuous but no less consequential environmental effects that can damage or cause poor performance of orbiting spacecraft Conveying a wealth of insight into the nature of the space environment and how spacecraft interact with it he covers design modifications aimed at eliminating or reducing such environmental effects as solar absorptance increases caused by self contamination materials erosion by atomic oxygen electrical discharges due to spacecraft charging degradation of electrical circuits by radiation and bombardment by micrometeorites This book is unique in that it bridges the gap between studies of the space environment as performed by space physicists and spacecraft design engineering as practiced by aerospace engineers

Spacecraft Operations Thomas Uhlig, Florian Sellmaier, Michael Schmidhuber, 2014-08-20 The book describes the basic concepts of spaceflight operations for both human and unmanned missions The basic subsystems of a space vehicle are explained in dedicated chapters the relationship of spacecraft design and the very unique space environment are laid out Flight dynamics are taught as well as ground segment requirements Mission operations are divided into preparation including management aspects execution and planning Deep space missions and space robotic operations are included as special cases The book is based on a course held at the German Space Operation Center GSOC

[How Do Spacecraft Get to Outer Space?](#) Eliza Jeffery, 2025-10-07 It's a big question how do spacecraft get to outer space Spacecraft are incredible as are the astrodynamics engineers who make space travel possible The inspirational story behind this exciting field of science will captivate inquisitive young minds Discover The science behind a spacecraft's journey from start to finish How satellites navigate their way around incoming asteroids What space travel can teach us about the mysteries and possibilities of outer space and so much more Beautifully bound with stunning illustrations The Big Questions Answered is more than just a series of books it's a complete resource for kids teachers and parents to collect with QR codes to download free teachers parent resources and kids packs Start a lifelong interest in

science it can change the world Encyclopedia of Space and Astronomy Joseph A. Angelo, 2014-05-14 Presents a comprehensive reference to astronomy and space exploration with articles on space technology astronauts stars planets key theories and laws and more

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