

# Spaceplane

Matthew A. Bentley

**Spaceplanes** Matthew A. Bentley, 2009-03-02 Spaceplanes From Airport to Spaceport presents a coherent, lucid, and optimistic picture of the future of the near future. Space vehicles may soon take off from international airports and refuel in space. New technologies could allow flights to take off regularly between the Earth and the Moon. The technical details presented explain precisely how all this can be accomplished within the next few decades. This book also explains why the Space Tourist market could easily become the single most important factor in the mid-term future development of space transportation. In a few years it will be possible to board a spaceplane and fly into Earth orbit, and perhaps visit a space station. Later development could include refuelling in orbit to take a tour of cislunar space. The book's solid engineering foundation will be of interest to both space exploration enthusiasts and future space travelers.

Spaceplanes S.L. Hamilton, 2021-12-15 This title brings readers the history and excitement of the world's attempts at creating aircraft that are part plane and part spaceship. From NASA's space shuttles to Britain's Skylon to Virgin Galactic's Unity, readers learn the developments of the past that have led to the possibility of everyday travelers going where only highly trained astronauts have gone before. Aligned to Common Core Standards and correlated to state standards. A&D Xtreme is an imprint of Abdo Publishing, a division of ABDO.

*A Two-stage-to-orbit Spaceplane Concept with Growth Potential*  
Unmeel B. Mehta, 2001

Spaceflight Revolution David Ashford, 2002-12-10 A revolution in spaceflight is likely soon with the prospect of everyday access to orbit within fifteen years. Costly launch vehicles based on ballistic missiles

will be replaced by 'spaceplanes', using technology that exists today. In five years' time, a prototype could be built, and with a further ten years of detailed development, the design could approach airliner maturity, reducing the cost of sending people into space some one thousand times to around US\$20,000. Spaceplane development has, in effect, been suppressed by entrenched thinking and short-term vested interests. But the present monopoly of large government space agencies is becoming unsupportable, and the market that understands the very real opportunities for space travel will be reaching critical mass in the near future. This book examines these issues and shows why space tourism will one day become the single largest business in space, and how astronomy and environmental science will be transformed by low-cost access making possible instruments vastly larger than those of today. Contents: Past, Present, Predicted Future: Spaceplane History Recent Developments Way Ahead Spaceplane Potential: Spaceplane Low-Cost Potential Orbital Infrastructure The Spaceplane Space Age Time Scale: Technical Feasibility Safety Maturity Market Development Cost Design Logic Breaking the Mould Benefits Conclusions Readership: Professionals and members of the public interested in the way ahead for space including students, academics, industrialists and managers involved in the space, aircraft and travel industries. Reviews: "... a fascinating and very readable account ... This fine book will appeal to the technically minded and the romantic at heart alike." Philip Bridle BBC Broadcaster — Astronomy and Space "In this fascinating book the author, founder of Bristol Spaceplanes argues the case clearly and very effectively ... will help to dislodge entrenched thinking where it matters. Recommended, indeed essential, reading." Spaceflight "This readable but no-frills book details how a private sector return to the

'aircraft approach' will cut launch costs enabling space tourism at a 'reasonable' cost. It serves as a good summary of a dynamic market that repays close watching." Astronomy Now

*Spaceplane* Fouad Sabry, 2022-10-25 What Is Spaceplane A vehicle that is capable of flying and gliding like an airplane while in the atmosphere of Earth and maneuvering like a spacecraft while in space is referred to as a spaceplane. In order to do this, spaceplanes need to include aspects of both aviation and spacecraft into their design. Sub-orbital spaceplanes often resemble fixed-wing aircraft more than orbital spaceplanes do, whereas orbital spaceplanes tend to be more analogous to conventional spacecraft. Rockets have been used to power every spaceplane that has ever flown, but gliders have been used to land them. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Spaceplane Chapter 2: Human spaceflight Chapter 3: Buran programme Chapter 4: Spacecraft Chapter 5: Spaceflight Chapter 6: Lifting body Chapter 7: Human spaceflight programs Chapter 8: Reusable launch system Chapter 9: Boeing X-20 Dyna-Soar Chapter 10: Lockheed Martin X-33 Chapter 11: Boeing X-37 Chapter 12: Dream Chaser Chapter 13: Launch vehicle Chapter 14: List of crewed spacecraft Chapter 15: Intermediate eXperimental Vehicle Chapter 16: Buran (spacecraft) Chapter 17: USA-212 Chapter 18: Takeoff and landing Chapter 19: XS-1 (spacecraft) Chapter 20: Space Rider Chapter 21: SNC Demo-1 (II) Answering the public top questions about spaceplane. (III) Real world examples for the usage of spaceplane in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technologies in each industry to have 360-degree full understanding of spaceplane' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or

information for any kind of spaceplane.

**Spaceplane HERMES** Luc van den Abeelen, 2016-11-26 This is the first comprehensive book on the European Hermes program. It tells the fascinating story of how Europe aimed for an independent manned spaceflight capability which was to complement US and Soviet/Russian space activities. In 1975, France decided to expand its plans for automated satellites for materials processing to include the development of a small 10 ton spaceplane to be launched on top of a future heavy-lifting Ariane rocket. This Hermes spaceplane would give Europe its own human spaceflight capability for shuttling crews between Earth and space stations. The European Space Agency backed the proposal. Unfortunately, after detailed studies, the project was cancelled in 1993. If Hermes had been introduced into service, it could have become the preferred space taxi for ferrying crews to and from the International Space Station. But that opportunity was lost. This book provides the first look of the complete story of and reasons for the demise of this ambitious program. It also gives an account which pieces of Hermes survived and are active in the 2nd decade of the 21st century. This fascinating story will be a great read for space enthusiasts. But it will also serve as a comprehensive documentation of an important episode in the history of manned spaceflight.

XCOR, Developing the Next Generation Spaceplane Erik Seedhouse, 2016-03-29 Employing the same informational approach Erik Seedhouse used in SpaceX and Bigelow Aerospace, this new book familiarizes space enthusiasts with the company XCOR Aerospace and examines the design of the two-seater Lynx. The new spaceplane's low weight and high octane fuel confer important advantages, such as direct runway launches and the ability to fly several times per day. Over the last 15 years, XCOR has developed and built 13 different

rocket engines, built and flown two manned rocket-powered aircraft and has accumulated over 4,000 engine firings and nearly 500 minutes of run time on their engines. This book serves as a go-to reference guide for suborbital scientists and those seeking to learn how one company has found success. Additionally, it describes the medical and training requirements for those flying on board the Lynx and the related critical roles of the astronaut trainers and a new breed of commercial space pilots. The end result is a thorough chronicle of the development of rocket propulsion, avionics, simulator and ground support operations being put into play by XCOR with the Lynx.

**The Spaceplane, the Catalyst for Resolution of the Boundary and Space Object Issues in the Law of Outer Space? ,1999**

**A Two-Stage-To-Orbit Spaceplane Concept with Growth Potential**

Unmeel B. Mehta,Jeffrey V. Bowles,Nasa Technical Reports Server (Ntrs),2013-08 A two-stage-to-orbit (TSTO) spaceplane concept developed in 1993 is revisited, and new information is provided to assist in the development of the next-generation space transportation vehicles. The design philosophy, TSTO spaceplane concept, and the design method are briefly described. A trade study between cold and hot structures leads to the choice of cold structures with external thermal protection systems. The optimal Mach number for staging the second stage of the TSTO spaceplane (with air-breathing propulsion on the first stage) is 10, based on life-cycle cost analysis. The performance and specification of a prototype/experimental (P/X) TSTO spaceplane with a turbo/ram/scramjet propulsion system and built-in growth potential are presented and discussed. The internal rate of return on investment is the highest for the proposed TSTO spaceplane, vis-A-vis a single-stage-to-orbit (SSTO) rocket vehicle and a TSTO spaceplane without built-in growth. Additional growth potentials for the

proposed spaceplane are suggested. This spaceplane can substantially decrease access-to-space cost and risk, and increase safety and reliability in the near term. It can be a serious candidate for the next-generation space transportation system.

**Round trip to orbit : human spaceflight alternatives : special report. ,**

*Space Exploration: All That Matters* David Ashford, 2013-07-26  
Amid a century devastated by war, space exploration was perhaps mankind's greatest achievement of the twentieth century. Yet remarkably, in a world where most technology progresses constantly, space exploration appears to have gone backwards. Man has not returned to the moon since 1972; the space shuttle programme has finished and not been replaced; much-vaunted promises of space tourism have not become realistic. In this remarkable book, David Ashford looks back at the story of space exploration, identifying the factors that were a driving force behind the eye-catching programmes of the cold war, and showing how now new driving forces are needed. Using his own extensive experience as a practitioner and researcher of space exploration, Ashford then outlines a new, realistic roadmap for achieving the new space age soon and at an affordable cost. This accessible and readable book will appeal both to students and general readers, giving a fascinating introduction to space exploration - and what matters most about it.

**Spaceport Earth** Joe Pappalardo, 2019-03-26 “Tackles the ever-changing, twenty-first-century space industry and what privately funded projects like Elon Musk’s SpaceX mean for the future of space travel.” —Foreign Policy Creating a seismic shift in today’s space industry, private sector companies including Elon Musk’s SpaceX and Jeff Bezos’s Blue Origin are building a dizzying array of new

spacecraft and rockets, not just for government use, but for any paying customer. At the heart of this space revolution are spaceports, the center and literal launching pads of spaceflight. Spaceports cost hundreds of millions of dollars, face extreme competition, and host operations that do not tolerate failures—which can often be fatal. Aerospace journalist Joe Pappalardo has witnessed space rocket launches around the world, from the jungle of French Guiana to the coastline of California. In his comprehensive work *Spaceport Earth*, Pappalardo describes the rise of private companies and how they are reshaping the way the world is using space for industry and science. *Spaceport Earth* is a travelogue through modern space history as it is being made, offering space enthusiasts, futurists, and technology buffs a close perspective of rockets and launch sites, and chronicling the stories of industrial titans, engineers, government officials, billionaires, schemers, and politicians who are redefining what it means for humans to be a spacefaring species. “Private companies and rich people like Elon Musk and Jeff Bezos have taken over the exploration of space. Pappalardo explores this new sort of spacefaring at the outer reaches of business and technology.” —The New York Times “For anyone obsessed with how spaceflight grew into what it is today, this book is a must-have.” —Popular Mechanics

*Spaceplane* Fouad Sabry, 2022-11-05 Cos'è l'astronave Un veicolo in grado di volare e planare come un aeroplano mentre si trova nell'atmosfera terrestre e di manovrare come un'astronave mentre si trova nello spazio è indicato come uno spaziplano. Per fare ciò, gli aeroplani devono includere aspetti sia dell'aviazione che dei veicoli spaziali nella loro progettazione. Gli aeroplani suborbitali somigliano spesso a velivoli ad ala fissa più degli aeroplani orbitali, mentre gli aeroplani orbitali tendono ad essere più analoghi ai veicoli spaziali



convenzionali. I razzi sono stati usati per alimentare ogni aeroplano che abbia mai volato, ma gli alianti sono stati usati per farli atterrare. Come ne trarrai vantaggio (I) Approfondimenti e conferme sui seguenti argomenti: Capitolo 1: Spaceplane Capitolo 2: Volo spaziale umano Capitolo 3: Programma Buran Capitolo 4: Veicoli spaziali Capitolo 5: Volo spaziale Capitolo 6: Sollevamento del corpo Capitolo 7: Programmi di volo spaziale umano Capitolo 8 : Sistema di lancio riutilizzabile Capitolo 9: Boeing X-20 Dyna-Soar Capitolo 10: Lockheed Martin X-33 Capitolo 11: Boeing X-37 Capitolo 12: Dream Chaser Capitolo 13: Veicolo di lancio Capitolo 14: Elenco dei veicoli spaziali con equipaggio Capitolo 15: Esperimento intermedio Veicolo Capitolo 16: Buran (veicolo spaziale) Capitolo 17: USA-212 Capitolo 18: Decollo e atterraggio Capitolo 19 : XS-1 (veicolo spaziale) Capitolo 20: Space Rider Capitolo 21: SNC Demo-1 (II) Rispondere alle principali domande del pubblico about spaceplane. (III) Esempi del mondo reale per l'utilizzo di spaceplane in molti campi. (IV) 17 appendici per spiegare, brevemente, 266 tecnologie emergenti in ogni settore per avere Comprensione completa a 360 gradi delle tecnologie degli spaziali. A chi è rivolto questo libro Professionisti, studenti universitari e laureati, appassionati, hobbisti e coloro che vogliono andare oltre le conoscenze o le informazioni di base per qualsiasi tipo di aereo spaziale.

Aerospace Plane Technology United States. General Accounting Office, 1991

Single Stage to Orbit Andrew J. Butrica, 2004-12-01 Winner of the Michael C. Robinson Prize for Historical Analysis given by the National Council on Public History While the glories and tragedies of the space shuttle make headlines and move the nation, the story of the shuttle forms an inseparable part of a lesser-known but no less important drama—the search for a reusable single-stage-to-orbit rocket.

Here an award-winning student of space science, Andrew J. Butrica, examines the long and tangled history of this ambitious concept, from its first glimmerings in the 1920s, when technicians dismissed it as unfeasible, to its highly expensive heyday in the midst of the Cold War, when conservative-backed government programs struggled to produce an operational flight vehicle. Butrica finds a blending of far-sighted engineering and heavy-handed politics. To the first and oldest idea—that of the reusable rocket-powered single-stage-to-orbit vehicle—planners who belonged to what President Eisenhower referred to as the military-industrial complex added experimental (X), aircraft-like capabilities and, eventually, a faster, cheaper, smaller managerial approach. *Single Stage to Orbit* traces the interplay of technology, corporate interest, and politics, a combination that well served the conservative space agenda and ultimately triumphed—not in the realization of inexpensive, reliable space transport—but in a vision of space militarization and commercialization that would appear settled United States policy in the early twenty-first century.

*Rocketing Into the Future* Michel van Pelt, 2012-05-30 This book describes the technology, history, and future of rocket planes. Michel van Pelt journeys into this exciting world, examining the exotic concepts and actual flying vehicles that have been devised over the last hundred years. He recounts the history of rocket airplanes, from the early pioneers who attached simple rockets onto their wooden glider airplanes to the modern world of high-tech research vehicles. The author visits museums where rare examples of early rocket planes are kept and modern laboratories where future spaceplanes are being developed. He explains the technology in an easily understandable way, describing the various types of rocket airplanes and looking at the possibilities for the future. Michel van Pelt

considers future spaceplanes, presenting various modern concepts and developments. He describes the development from cutting edge research via demonstrator vehicles to operational use. He also evaluates the replacement of the Space Shuttle with a seemingly old-fashioned capsule system, the parallel developments in suborbital spaceplanes such as SpaceShipOne and SpaceShipTwo, piloted versus automatic flight, and related developments in airliners and military aircraft.

### **Round Trip to Orbit ,1989**

*The Virtual Spaceplane* Troy D. Johnson,1997-12-01 The Air Force is currently investigating the possibility of developing a manned vehicle capable of operating in space. This Military Spaceplane (MSP) will be capable of ascent to low-earth orbit and maneuvering while in orbit. The goal of this research involved creating the Virtual Spaceplane (VSP), a virtual environment (VE) simulator for the MSP. This thesis examines two ideas significant to virtual environments and cockpit design: multiple motion models and hypertext in a VE. Movement in a VE has traditionally been modeled using a single motion model. Little work has been done to allow a change of the motion model used during the simulation. This thesis suggests partitioning simulation entities into two sections: the geometry model and the propagation model. This approach is demonstrated in the VSP using multiple propagation models as it transitions from runway to orbit. This thesis also examines the use of hypertext within a VE. Hypertext has been shown useful for readers to quickly locate information. This thesis will discuss the integration of a hypertext interface into the VSP. The hypertext interface provides checklists, systems status, and consumables status. Hypertext provides the spaceplane pilot with an effective means of referencing large

amounts of data.

**Stepping Stones to the Stars** Terry C Treadwell, Henry Hartsfield, 2010-05-28 Stepping Stones to the Stars is the story of manned spaceflight from its inception to the era of the Space Shuttle. It begins with a short history of the evolution of the rocket, before describing the first manned rocket flights by both the Americans and the Russians. There is also the little-known story of what is thought to be the earliest manned rocket flight, said to have taken place in 1933 on the island of Rügen in the Baltic under the control of the German War Ministry. The story continues through Yuri Gagarin becoming the first person in space and Neil Armstrong's giant leap for mankind; to the first space stations, Skylab, Salyut and Mir. With the development of the Shuttle, the USA moved ahead in the space race, but the Americans and Russians soon realised that it was easier to co-operate than compete, and the two nations began to work together for the first time. Terry C. Treadwell's book is a non-technical history of human spaceflight, that tells the exciting and dramatic story of how we took our early steps towards the stars.

French Secret Projects 3: French & European Spaceplane Designs 1964-1994 Jean-Christophe Carbonel, 2021-10-07 In 1963, Eugen Sanger, became head of the Eurospace organization which promoted the 'AeroSpace Transporter'. In response to a Eurospace call, aircraft makers in France, Germany and UK designed recoverable, winged spacecraft. From 1964 to 1970 the French government led studies to evaluate the feasibility of the concept. Those studies, under the leadership of the French Centre National d'Etudes Spatiales (CNES), coalesced into the Hermes spaceplane which was then adopted by the European Space Agency. In parallel, Germany and UK proposed fully recoverable designs while other countries, including Japan, India and

Russia came to CNES to share ideas about spaceplane design. Unfortunately Hermes was never launched and by 1994 was abandoned after many alternative propositions were discussed. This book relates the story of these remarkable concepts, crossovers between aircraft and spacecraft beginning with the 'antipodal bomber' of 1944 and continuing to Aerospatiale STS-2000 project through the Transporteur Aero-Spatial, VERAS, AW Pyramid, Bumerang, Sanger II, HOTOL, Hermes, and Taranis. Non-European projects like Dyna-Soar, Hyperplane, HOPE, and MAKS are also covered. It provides a fascinating and detailed account of these projects which, being half-way between aircraft and spacecraft, have hitherto often been therefore often neglected by aviation writers and historians.

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