

Single Stage To Orbit

United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Space

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.

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

A Two-Stage-to-Orbit Spaceplane Concept With Growth Potential , 2001

Determination Criteria for Single Stage to Orbit , 1990 The following exercise will determine the criteria for Single Stage to Orbit booster vehicles. To validate the assumptions and results several existing vehicles are examined. As a control the Manned Space Shuttle is used to calculate the equivalent orbital velocity. This velocity is then used to determine if the selected vehicle can achieve orbit and to calculate its payload capacity.

Round Trip to Orbit , 1989

From Earth to Orbit National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Aeronautics and Space Engineering Board, Committee on Earth-to-Orbit Transportation Options, 1992-02-01 If the United States hopes to continue as a leader in space, it must invest now in better earth-to-orbit technology by replacing obsolete launch facilities while also developing a new class of more robust and reliable vehicles. From Earth to Orbit provides strategies to reduce launch costs while increasing the reliability and resiliency of vehicles. It also recommends continued improvements for the Space Shuttle Orbiter and its subsystems and the development of a Space Transportation Main Engine (STME).

A Comparative Analysis of Single-Stage-To-Orbit Rocket and Air-Breathing Vehicles , 2006 This study compares and contrasts the performance of a variety of rocket and air breathing, single-stage-to-orbit, reusable launch vehicles. Fuels considered include bi-propellant and tri-propellant combinations of hydrogen and hydrocarbon fuels. Astrox Corporation's HySIDE code was used to model the vehicles and predict their characteristics and performance. Vehicle empty mass, wetted area and growth rates were used as figures of merit to predict the procurement, operational and maintenance cost trends of a vehicle system as well as the system's practicality. Results were compared to those of two-stage-to-orbit reusable launch systems using similar modeling methods. The study found that single-stage-to-orbit vehicles using scramjet air breathing propulsion outperform rocket systems. Findings also demonstrate the benefits of using hydrocarbon fuel in the early phases of ascent to reduce the size and mass of launch vehicles. An all-hydrocarbon, air breathing, single-stage-to-orbit vehicle was found to be a viable launch vehicle configuration and performed comparably to two-stage-to-orbit rocket systems.

Allocation of Single-stage-to-orbit Research Funds United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Space, 1994 Distributed to some depository libraries in microfiche.

An Evaluation of Composite Propulsion for Single-Stage-To-Orbit Vehicles Designed for Horizontal Take-Off National Aeronautics and Space Administration (NASA), 2018-07-25 Composite propulsion was analyzed for single-stage-to-orbit vehicles designed for horizontal take-off. Trajectory, geometric, and mass analyses were performed to establish the orbital payload capability of six engines. The results indicated that none of the engines performed adequately to deliver payloads to orbit as analyzed. The single-stage turbine and oxidizer-rich gas generator resulted in a low engine specific impulse, and the performance increment of the ejector subsystem was less than that of a separate rocket system with a high combustion pressure. There was a benefit from incorporating a fan into the engine, and removal of the fan from the airstream during the ramjet mode increased the orbital payload capability. Martin, J. A. Langley Research Center NASA-TM-X-3554, L-11548 RTOP 506-26-10-08

Single Stage Orbiting Vehicles Ralph Sherman Cooper, 1962

The Future of U.S. Rocketry Edward Hujsak, 1994 From Space News. January 27, 1997: Many would do well reading this treasure of facts covering the development of U.S. launch vehicles. Starting from American Robert Goddard's pioneering work, Hujsak provides an overview of a half-century of booster business. The Atlas, Delta, Titan, space shuttle and its derivations are covered, as are the Delta Clipper and the single-stage-to-orbit National Aerospace Plane project. Also covered is past work on nuclear-powered rockets, as well as looks at unconventional propulsion using lasers and interstellar ramjets. This is a straightforward, no-nonsense easy-to-read book, particularly for those unfamiliar with the evolution of U.S. space launch capability.

Reusable Launch Vehicle National Research Council, Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Committee on Reusable Launch Vehicle Technology and Test Program, 1996-01-08 The key to opening the use of space to private enterprise and to broader public uses lies in reducing the cost of the transportation to space. More routine, affordable access to space will entail aircraft-like quick turnaround and reliable operations. Currently, the space Shuttle is the only reusable launch vehicle, and even parts of it are expendable while other parts require frequent and extensive refurbishment. NASA's highest priority new activity, the Reusable Launch Vehicle program, is directed toward developing technologies to enable a new generation of space launchers, perhaps but not necessarily with single stage to orbit capability. This book assesses whether the technology development, test and analysis programs in propulsion and materials-related technologies are properly constituted to provide the information required to support a December 1996 decision to build the X-33, a technology demonstrator vehicle; and suggest, as appropriate, necessary changes in these programs to ensure that they will support vehicle feasibility goals.

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.

Reusable Launch System Fouad Sabry, 2022-08-03 What Is Reusable Launch System When transporting payloads from Earth's surface into outer space, a reusable launch

vehicle has pieces that may be retrieved and used again in subsequent launches. The stages of the rocket are the most frequent component of the launch vehicle that is intended for reuse. There is also the possibility of reusing smaller components, like as rocket engines and boosters, however it is possible for reusable spacecraft to be launched atop an expendable launch vehicle. The production of these components is not required for reusable launch vehicles, which results in a considerable reduction in the overall cost of the launch. The expense of recovery and restoration, on the other hand, will reduce the value of these advantages. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Reusable launch system Chapter 2: Space Shuttle Chapter 3: Single-stage-to-orbit Chapter 4: Spacecraft Chapter 5: Space Shuttle program Chapter 6: Human spaceflight programs Chapter 7: Booster (rocketry) Chapter 8: Spaceplane Chapter 9: Space vehicle Chapter 10: Boeing X-37 Chapter 11: Dream Chaser Chapter 12: Launch vehicle Chapter 13: List of crewed spacecraft Chapter 14: Falcon 9 Chapter 15: Buran (spacecraft) Chapter 16: VTVL Chapter 17: Falcon Heavy Chapter 18: Takeoff and landing Chapter 19: SpaceX reusable launch system development program Chapter 20: XS-1 (spacecraft) Chapter 21: Super heavy-lift launch vehicle (II) Answering the public top questions about reusable launch system. (III) Real world examples for the usage of reusable launch system in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technologies in each industry to have 360-degree full understanding of reusable launch system' 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 reusable launch system.

Space Launch Initiative United States. Congress. House. Committee on Science. Subcommittee on Space and Aeronautics,2001

Exploring the Unknown: Accessing space John M. Logsdon,1995

Abort Performance for a Winged-body Single-stage to Orbit Vehicle Jeffrey A. Lyon,1995

SSTO RLVs John R. Stafford,1996-11-01 The US military must think creatively to exploit potentially useful developing technologies in the pursuit of national security. Single Stage to Orbit (SSTO) Reusable Launch Vehicles (RLVs) are currently under cooperative development by NASA, the Air Force, and the aerospace industry in the pursuit of assured commercial and national access to space. The transportation elements of DoD (Air Mobility Command and USTRANSCOM) have the opportunity to exploit these rapid transit technologies to advance 'Global Reach for America.' The SSTO RLV is a single stage rocket that will be completely reusable, similar to an aircraft, yet deliver a C-130 size cargo anywhere on the planet in less than one hour. Industry, Air Force, and NASA sources were investigated to assess the projected capabilities and costs of the SSTO system. This paper reviews the proposed capabilities of the SSTO system, discusses the current status of the development and test program, compares the proposed capabilities with current DoD and commercial transportation modes and costs, and recommends that Air Mobility Command, as airlift agent for USTRANSCOM and DoD as a whole, should pursue development and limited acquisition of SSTO RLVs for use as airlift platforms.

Hearing on the NASA Space Shuttle and the Reusable Launch Vehicle Programs United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,1995

An Evaluation of Composite Propulsion for Single-stage-to-orbit Vehicles Designed for Horizontal Take-off James A. Martin,1977

Single Stage To Orbit Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Single Stage To Orbit**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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