

Single Stage To Orbit SSTO Paper Model.jpg

Steven J. Isakowitz, Joseph P. Hopkins, Joshua B. Hopkins

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

NASA Technical Paper ,1977

Round Trip to Orbit ,1989

Trim Drag Reduction Concepts for Horizontal Takeoff Single-Stage-To-Orbit Vehicles National Aeronautics and Space Adm Nasa,2018-10-15 The results of a study to investigate concepts for minimizing trim drag of horizontal takeoff single-stage-to-orbit (SSTO) vehicles are presented. A generic hypersonic airbreathing conical configuration was used as the subject aircraft. The investigation indicates that extreme forward migration of the aerodynamic center as the vehicle accelerates to orbital velocities causes severe aerodynamic instability and trim moments that must be counteracted. Adequate stability can be provided by active control of elevons and rudder, but use of elevons to produce trim moments results in excessive trim drag and fuel consumption. To alleviate this problem, two solution concepts are examined. Active control of the center of gravity (COG) location to track the aerodynamic center decreases trim moment requirements, reduces elevon deflections, and leads to significant fuel savings. Active control of the direction of the thrust vector produces required trim moments, reduces elevon deflections, and also results in significant fuel savings. It is concluded that the combination of active flight control to provide stabilization, (COG) position control to minimize trim moment requirements, and thrust vectoring to generate required trim moments has the potential to significantly reduce fuel consumption during ascent to orbit of horizontal takeoff SSTO vehicles. Shaughnessy, John D. and Gregory, Irene M. Langley Research Center RTOP 505-64-40-01

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

Test Plan. Gcps Task 4, Subtask 4.2 Thrust Structure Development National Aeronautics and Space Adm Nasa,2018-11-21 The Single Stage To Orbit (SSTO) vehicle is designed to lift off from a vertical position, go into orbit, return to earth for a horizontal landing, and be reusable for the next mission. (NASA baseline only) In order to meet its performance goals, the SSTO relies on light weight structure and the use of 8 tri-propellant engines. These engines are mounted to the thrust structure. This test plan addresses selection of the material for this structure, and the integrity of the design through testing of elements and a full-scale subcomponent. This test plan supports the development of the design for an advanced composite thrust structure for a Single Stage to Orbit manned, heavy launch vehicle. The thrust structure is designed to transmit very high thrust loads from the engines to the rest of the vehicle (see Figure 1). The thrust structure will also be used for primary attachment of the twin vertical tails and possibly act as the aft attach point for the wing. The combination of high loading, high vibration, long service life and high acoustic environments will need to be evaluated by tests. To minimize design risk, a building block approach will be used. We will first screen materials to determine which materials show the most promise for this application. Factors in this screening will be the suitability of these materials for chosen design concepts, particularly concerning specific strength, environmental compatibility and applicability to fabrication processes. Next we will characterize two material systems that will be used in the design; the characterization will allow us to generate preliminary design data that will be used for the analysis. Element testing will be performed to evaluate critical structural locations under load. Final testing on the full scale test article will be performed to verify the design and to demonstrate predictability of the analysis. Additionally, risks associated with fabricating full scale thrust

structures will be reduced through tes...

Advanced Transportation System Studies Technical Area 2(ta-2): Heavy Lift Launch Vehicle Development. Volume 1; Executive Summary National Aeronautics and Space Adm Nasa,2018-11-03 The purpose of the TA-2 contract was to provide advanced launch vehicle concept definition and analysis to assist NASA in the identification of future launch vehicle requirements. Contracted analysis activities included vehicle sizing and performance analysis, subsystem concept definition, propulsion subsystem definition (foreign and domestic), ground operations and facilities analysis, and life cycle cost estimation. This document is part of the final report for the TA-2 contract. The final report consists of three volumes: Volume 1 is the Executive Summary, Volume 2 is Technical Results, and Volume 3 is Program Cost Estimates. The document-at-hand, Volume 1, provides a summary description of the technical activities that were performed over the entire contract duration, covering three distinct launch vehicle definition activities: heavy-lift (300,000 pounds injected mass to low Earth orbit) launch vehicles for the First Lunar Outpost (FLO), medium-lift (50,000-80,000 pounds injected mass to low Earth orbit) launch vehicles, and single-stage-to-orbit (SSTO) launch vehicles (25,000 pounds injected mass to a Space Station orbit). McCurry, J. Marshall Space Flight Center...

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.

Trajectory Optimization and Guidance for an Aerospace Plane National Aeronautics and Space Adm Nasa,2018-10-24 The first step in the approach to developing guidance laws for a horizontal take-off, air breathing single-stage-to-orbit vehicle is to characterize the minimum-fuel ascent trajectories. The capability to generate constrained, minimum fuel ascent trajectories for a single-stage-to-orbit vehicle was developed. A key component of this capability is the general purpose trajectory optimization program OTIS. The pre-production version, OTIS 0.96 was installed and run on a Convex C-1. A propulsion model was developed covering the entire flight envelope of a single-stage-to-orbit vehicle. Three separate propulsion modes, corresponding to an after burning turbojet, a ramjet and a scramjet, are used in the air breathing propulsion phase. The Generic Hypersonic Aerodynamic Model Example aerodynamic model of a hypersonic air breathing single-stage-to-orbit vehicle was obtained and implemented. Preliminary results pertaining to the effects of variations in acceleration constraints, available thrust level and fuel specific impulse on the shape of the minimum-fuel ascent trajectories were obtained. The results show that, if the air breathing engines are sized for acceleration to orbital velocity, it is the acceleration constraint rather than the dynamic pressure constraint that is active during ascent. Mease, Kenneth D. and Vanburen, Mark A. Unspecified Center NAG1-907

Reusable Launch Vehicle Committee on Reusable Launch Vehicle Technology and Test Program,Commission on Engineering and Technical Systems,Division on Engineering and Physical Sciences,National Research Council,1996-01-22 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.

Frontiers of Space Philip Bono, Kenneth William Gatland, 1969

Liquid Hydrogen as a Propulsion Fuel, 1945-1959 John L. Sloop, 1978

Single Stage to Orbit Andrew J. Butrica, 2003-10-22 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. -- D. M. Ashford

A Review of United States Air Force and Department of Defense Aerospace Propulsion Needs National Research Council, Division on Engineering and Physical Sciences, Air Force Studies Board, Committee on Air Force and Department of Defense Aerospace Propulsion Needs, 2007-01-14 Rocket and air-breathing propulsion systems are the foundation on which planning for future aerospace systems rests. *A Review of United States Air Force and Department of Defense Aerospace Propulsion Needs* assesses the existing technical base in these areas and examines the future Air Force capabilities the base will be expected to support. This report also defines gaps and recommends where future warfighter capabilities not yet fully defined could be met by current science and technology development plans.

The Mars Project Wernher Von Braun, 1953 This classic on space travel was first published in 1953, when interplanetary space flight was considered science fiction by most of those who considered it at all. Here the German-born scientist Wernher von Braun detailed what he believed were the problems and possibilities inherent in a projected expedition to Mars. Today von Braun is recognized as the person most responsible for laying the groundwork for public acceptance of America's space program. When President Bush directed NASA in 1989 to prepare plans for an orbiting space station, lunar research bases, and human exploration of Mars, he was largely echoing what von Braun proposed in *The Mars Project*.

Hypersonic Vehicles Giuseppe Pezzella, Antonio Viviani, 2019-10-02 In the aviation field there is great interest in high-speed vehicle design. Hypersonic vehicles represent the next frontier of passenger transportation to and from space. However, several design issues must be addressed, including vehicle aerodynamics and aerothermodynamics, aeroshape design optimization, aerodynamic heating, boundary layer transition, and so on. This book contains valuable

contributions focusing on hypervelocity aircraft design. Topics covered include hypersonic aircraft aerodynamic and aerothermodynamic design, especially aeroshape design optimization, computational fluid dynamics, and scramjet propulsion. The book also discusses high-speed flow issues and the challenges to achieving the dream of affordable hypersonic travel. It is hoped that the information contained herein will allow for the development of safe and efficient hypersonic vehicles.

International Reference Guide to Space Launch Systems Steven J. Isakowitz, Joseph P. Hopkins, Joshua B. Hopkins, 2004 This bestselling reference guide contains the most reliable and comprehensive material on launch programs in Brazil, China, Europe, India, Israel, and the United States. Packed with illustrations and figures, this edition has been updated and expanded, and offers a quick and easy data retrieval source for policy makers, planners, engineers, launch buyers, and students.

Fundamentals of Aircraft and Rocket Propulsion Ahmed F. El-Sayed, 2016-05-25 This book provides a comprehensive basics-to-advanced course in an aero-thermal science vital to the design of engines for either type of craft. The text classifies engines powering aircraft and single/multi-stage rockets, and derives performance parameters for both from basic aerodynamics and thermodynamics laws. Each type of engine is analyzed for optimum performance goals, and mission-appropriate engines selection is explained. Fundamentals of Aircraft and Rocket Propulsion provides information about and analyses of: thermodynamic cycles of shaft engines (piston, turboprop, turboshaft and propfan); jet engines (pulsejet, pulse detonation engine, ramjet, scramjet, turbojet and turbofan); chemical and non-chemical rocket engines; conceptual design of modular rocket engines (combustor, nozzle and turbopumps); and conceptual design of different modules of aero-engines in their design and off-design state. Aimed at graduate and final-year undergraduate students, this textbook provides a thorough grounding in the history and classification of both aircraft and rocket engines, important design features of all the engines detailed, and particular consideration of special aircraft such as unmanned aerial and short/vertical takeoff and landing aircraft. End-of-chapter exercises make this a valuable student resource, and the provision of a downloadable solutions manual will be of further benefit for course instructors.

Future Spacecraft Propulsion Systems Paul A. Czysz, Claudio Bruno, 2006-09-19 An understandable perspective on the types of space propulsion systems necessary to enable low-cost space flights to Earth orbit and to the Moon and the future developments necessary for exploration of the solar system and beyond to the stars.

American X-vehicles Dennis R. Jenkins, Tony Landis, Jay Miller, 2003

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Table of Contents Single Stage To Orbit SSTO Paper Model.jpg

1. Understanding the eBook Single Stage To Orbit SSTO Paper Model.jpg
 - The Rise of Digital Reading Single Stage To Orbit SSTO Paper Model.jpg
 - Advantages of eBooks Over Traditional Books
2. Identifying Single Stage To Orbit SSTO Paper Model.jpg
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Single Stage To Orbit SSTO Paper Model.jpg
 - User-Friendly Interface
4. Exploring eBook Recommendations from Single Stage To Orbit SSTO Paper Model.jpg
 - Personalized Recommendations
 - Single Stage To Orbit SSTO Paper Model.jpg User Reviews and Ratings
 - Single Stage To Orbit SSTO Paper

Model.jpg and Bestseller Lists

5. Accessing Single Stage To Orbit SSTO Paper Model.jpg Free and Paid eBooks
 - Single Stage To Orbit SSTO Paper Model.jpg Public Domain eBooks
 - Single Stage To Orbit SSTO Paper Model.jpg eBook Subscription Services
 - Single Stage To Orbit SSTO Paper Model.jpg Budget-Friendly Options
6. Navigating Single Stage To Orbit SSTO Paper Model.jpg eBook Formats
 - ePub, PDF, MOBI, and More
 - Single Stage To Orbit SSTO Paper Model.jpg Compatibility with Devices
 - Single Stage To Orbit SSTO Paper Model.jpg Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Single Stage To Orbit SSTO Paper Model.jpg
 - Highlighting and Note-Taking Single Stage To Orbit SSTO Paper Model.jpg
 - Interactive Elements Single Stage To Orbit SSTO Paper Model.jpg
8. Staying Engaged with Single Stage To Orbit

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- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Single Stage To Orbit SSTO Paper Model.jpg
9. Balancing eBooks and Physical Books Single Stage To Orbit SSTO Paper Model.jpg
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Single Stage To Orbit SSTO Paper Model.jpg
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Single Stage To Orbit SSTO Paper Model.jpg
 - Setting Reading Goals Single Stage To Orbit SSTO Paper Model.jpg
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Single Stage To Orbit SSTO Paper Model.jpg
 - Fact-Checking eBook Content of Single Stage To Orbit SSTO Paper

Model.jpg

- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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
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