# Propulsion Engineering Study for Small-Scale Mars Missions



# **Propulsion Engineering Study For Smallscale Mars**

**Aaron Bateman** 

#### **Propulsion Engineering Study For Smallscale Mars:**

**Propulsion Engineering Study for Small-Scale Mars Missions** John Whitehead, 2005-01-01 Rocket propulsion options for small scale Mars missions are presented and compared particularly for the terminal landing maneuver and for sample return Mars landing has a low propulsive differential velocity requirement on a 1 minute time scale but at a high acceleration High thrust weight liquid rocket technologies or advanced pulse capable solids developed during the past decade for missile defense are therefore more appropriate for small Mars landers than are conventional space propulsion technologies The advanced liquid systems are characterized by compact lightweight thrusters having high chamber pressures and short lifetimes Blowdown or regulated pressure fed operation can satisfy the Mars landing requirement but hardware mass can be reduced by using pumps Aggressive terminal landing propulsion designs can enable post landing hop maneuvers for some surface mobility. The Mars sample return mission requires a small high performance launcher having either solid motors or miniature pump fed engines Terminal propulsion for 100 kg Mars landers is within the realm of flight proven thruster designs but custom tankage is desirable Landers on a 10 kg scale also are feasible using technology that has been demonstrated but not previously flown in space The number of sources and the selection of components are extremely limited on this smallest scale so some customized hardware is required A key characteristic of kilogram scale propulsion is that gas jets are much lighter than liquid thrusters for reaction control. The mass and volume of tanks for inert gas can be eliminated by systems which generate gas as needed from a liquid or a solid but these have virtually no space flight history Mars return propulsion is a major engineering challenge earth launch is the only previously solved propulsion problem requiring similar or greater performance Mars in situ propellant production is a promising concept which offers the potential to reduce the mass which must be transported from earth However the use of in situ propellants does not mitigate the difficulty of designing the return vehicle s propulsion system **Propulsion Engineering Study for Small-scale Mars Weapons in Space** Aaron Bateman, 2024-05-07 A new and provocative take on the formerly classified Missions ,1995 history of accelerating superpower military competition in space in the late Cold War and beyond In March 1983 President Ronald Reagan shocked the world when he established the Strategic Defense Initiative SDI derisively known as Star Wars a space based missile defense program that aimed to protect the US from nuclear attack In Weapons in Space Aaron Bateman draws from recently declassified American European and Soviet documents to give an insightful account of SDI situating it within a new phase in the militarization of space after the superpower d tente fell apart in the 1970s In doing so Bateman reveals the largely secret role of military space technologies in late Cold War US defense strategy and foreign relations In contrast to existing narratives Weapons in Space shows how tension over the role of military space technologies in American statecraft was a central source of SDI s controversy even more so than questions of technical feasibility By detailing the participation of Western European countries in SDI research and development Bateman reframes space militarization in the

1970s and 1980s as an international phenomenon He further reveals that even though SDI did not come to fruition it obstructed diplomatic efforts to create new arms control limits in space Consequently Weapons in Space carries the legacy of SDI into the post Cold War era and shows how this controversial program continues to shape the global discourse about instability in space and the growing anxieties about a twenty first century space arms race *Government Reports* Microgravity Research in Support of Technologies for the Human Exploration Announcements & Index ,1996-09 and Development of Space and Planetary Bodies Committee on Microgravity Research, Space Studies Board, Commission on Physical Sciences, Mathematics, and Applications, Division on Engineering and Physical Sciences, National Research Council, 2000-07-17 The frontier represented by the near solar system confronts humanity with intriguing challenges and opportunities With the inception of the Human Exploration and Development of Space HEDS enterprise in 1995 NASA has acknowledged the opportunities and has accepted the very significant challenges Microgravity Research in Support of Technologies for the Human Exploration and Development of Space and Planetary Bodies was commissioned by NASA to assist it in coordinating the scientific information relevant to anticipating identifying and solving the technical problems that must be addressed throughout the HEDS program over the coming decades This report assesses scientific and related technological issues facing NASA's Human Exploration and Development of Space endeavor looking specifically at mission enabling and enhancing technologies which for development require an improved understanding of fluid and material behavior in a reduced gravity environment Scientific and Technical Aerospace Reports, 1995 NASA Technical Memorandum ,1994 Rocket Design and Construction Fundamentals Richard Skiba, 2024-12-20 This book delves into the fascinating world of rocketry exploring its historical milestones fundamental principles and the cutting edge technologies shaping the future of space exploration The book is structured into six parts each meticulously covering essential aspects of rocket design construction and applications Starting with the historical evolution of rockets and the principles of propulsion it moves into the intricate details of rocket system components types of propulsion technologies and advanced guidance systems Readers will gain a deep understanding of the materials structures and engineering practices that make modern rockets possible alongside insights into innovative manufacturing techniques like 3D printing and automation From translating complex designs into tangible assemblies to rigorous testing and validation the book offers a hands on perspective on building and launching rockets Applications in space exploration satellite deployment military uses and commercial ventures are examined in detail highlighting the critical role rockets play in advancing humanity s reach into space The final sections address the future of rocketry focusing on reusable systems green propulsion technologies AI driven innovations and next generation propulsion concepts like nuclear and antimatter systems Challenges such as regulatory hurdles ethical considerations and the competitive dynamics between nations and private entities are explored along with the opportunities emerging in the rapidly growing space technology market This book is ideal for aerospace professionals

engineering students and space enthusiasts who want a guide to the science and engineering behind rockets It serves as both an educational resource and an inspirational roadmap for anyone looking to understand the intricacies of rocketry and its pivotal role in space exploration Whether you re an aspiring engineer a researcher or a space enthusiast Rocket Design and Construction Fundamentals offers the knowledge and insights needed to grasp the challenges and opportunities in this dynamic field Monthly Catalogue, United States Public Documents ,1994 Monthly Catalog of United States Government Publications United States. Superintendent of Documents,1995 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index

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