

MISSION TO MARS

Plans and Concepts for
the First Manned Landing

James E. Oberg

Author of *New Earths*
and *Red Star in Orbit*

Mission To Mars Plans And Concepts For The First Manned Landing

Government Printing Office



Mission To Mars Plans And Concepts For The First Manned Landing:

Mission to Mars James E. Oberg, 2017-09-15 How feasible is a manned Mars flight How soon will it be possible How long will it take What kind of spacecraft will make the journey What kind of data will be collected What are the advantages of a manned flight over an unmanned Mission to Mars discusses these questions and more in this serious documented treatment of the not too distant manned expedition to Mars The shuttle has proved successful and an enthusiastic boost to American interest in space But while many laypeople wonder what's next scientists are planning what they feel is the next logical step Drawing on the vast amount of data sent back by Viking orbiters and probes and existing developments in propulsion and space technology space experts all over have been speculating analyzing and exchanging ideas relative to the long awaited mission to Mars Other factors critical to an intelligent discussion of such an undertaking are included here spaceship design and assembly propulsion systems navigation principles life support systems selecting a landing site scientific activities on Mars cost factors political and social issues *Mission to Mars* James E. Oberg, 1982 *Air University Review*, 1983 Exploring the Martian Moons Manfred "Dutch" von Ehrenfried, 2017-04-11 This book explores the once popular idea of Flexible Path in terms of Mars a strategy that would focus on a manned orbital mission to Mars's moons rather than the more risky expensive and time consuming trip to land humans on the Martian surface While currently still not the most popular idea this mission would take advantage of the operational scientific and engineering lessons to be learned from going to Mars's moons first Unlike a trip to the planet's surface an orbital mission avoids the dangers of the deep gravity well of Mars and a very long stay on the surface This is analogous to Apollo 8 and 10 which preceded the landing on the Moon of Apollo 11 Furthermore a Mars orbital mission could be achieved at least five years possibly 10 before a landing mission Nor would an orbital mission require all of the extra vehicles equipment and supplies needed for a landing and a stay on the planet for over a year The cost difference between the two types of missions is in the order of tens of billions of dollars An orbital mission to Deimos and Phobos would provide an early opportunity to acquire scientific knowledge of the moons and Mars as well since some of the regolith is presumed to be soil ejected from Mars It may also offer the opportunity to deploy scientific instruments on the moons which would aid subsequent missions It would provide early operational experience in the Mars environment without the risk of a landing The author convincingly argues this experience would enhance the probability of a safe and successful Mars landing by NASA at a later date and lays out the best way to approach an orbital mission in great detail Combining path breaking science with achievable goals on a fast timetable this approach is the best of both worlds and our best path to reaching Mars safely in the future From Cave Man to Cave Martian Manfred "Dutch" von Ehrenfried, 2019-04-05 This book explores the practicality of using the existing subsurface geology on the Moon and Mars for protection against radiation thermal extremes micrometeorites and dust storms rather than building surface habitats at great expense at least for those first few missions It encourages NASA to plan a precursor

mission using this concept and employ a Short Stay Opposition Class mission to Mars as the first mission rather than the Long Stay concept requiring a mission that is too long too dangerous and too costly for man's first missions to Mars Included in these pages is a short history on the uses of caves by early humans over great periods of time It then describes the ongoing efforts to research caves pits tunnels lava tubes skylights and the associated technologies that pertain to potential lunar and Mars exploration and habitation It describes evidence for existing caves and lava tubes on both the Moon and Mars The work of noted scientists technologists and roboticists are referenced and described This ongoing work is more extensive than one would think and is directly applicable to longer term habitation and exploration of the Moon and Mars Emphasis is also given to the operational aspects of working and living in lunar and Martian caves and lava tubes

Literature 1983, Part 1 S. Böhme, Prof. Dr. Walter Fricke, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-11-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 33 records literature published in 1983 and received before August 1 1983 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Choura Ms Monika Kohl and Ms Sylvia Matyssek Mr Martin Schlotelburg and Mr Ulrich Uberall supported our task by careful proofreading It is a pleasure to thank them all for their encouragement Heidelberg September 1983 The Editors

Contents Introduction 1 Concordance Relation ICSU AB AAA 3 Abbreviations 10 Periodicals Proceedings Books Activities 001 Periodicals 15 002 Bibliographical Publications Documentation Catalogues Atlases 47 003 Books 51 004 History of Astronomy 58 005 Biography 64 006 Personal Notes 65 007 Obituaries

Neuroscience in Space Gilles Clément, Millard F. Reschke, 2010-06-09 This book offers an overview of neuroscience research performed in space since the observations made during the first manned space flights to the detailed scientific investigations currently being carried out onboard the International Space Station This book is for the general scientific reader Each project and the reason why it was done is described with illustrations rationale and hypothesis and a summary of results Also reference lists guide readers to the published papers from experiments This book is a legacy of what we have learned on brain mechanisms and functions through research done in space and a guide for what could be investigated in the future

Future Survey Annual 1984 World Future Society, 1984-06-01

The Light-Green Society Michael Bess, 2003-11-15 The accelerating interpenetration

of nature and culture is the hallmark of the new light green social order that has emerged in postwar France argues Michael Bess in this penetrating new history On one hand a preoccupation with natural qualities and equilibrium has increasingly infused France's economic and cultural life On the other human activities have laid an ever more potent and pervasive touch on the environment whether through the intrusion of agriculture industry and urban growth or through the much subtler and more well intentioned efforts of ecological management The Light Green Society limns sharply these trends over the last fifty years The rise of environmentalism in the 1960s stemmed from a fervent desire to save wild nature nature conceived as a qualitatively distinct domain wholly separate from human designs and endeavors And yet Bess shows after forty years of environmentalist agitation much of it remarkably successful in achieving its aims the old conception of nature as a separate sphere has become largely untenable In the light green society where ecology and technological modernity continually flow together a new hybrid vision of intermingled nature culture has increasingly taken its place

Bold Endeavors Jack W Stuster, 2011-01-15 **Bold Endeavors** Lessons from Polar and Space Exploration presents the results of 15 years of research for NASA and the Department of Defense concerning the factors that contribute to adjustment and sustained human performance under conditions of isolation and confinement The research involved the study of previous space operations and conditions on Earth such as submarines Antarctic stations polar expeditions and voyages of discovery that are comparable to what might be expected for future long duration space missions **Bold Endeavors** is read by students engineers behavioral scientists modern explorers and the personnel staffing US Antarctic stations among others it has been described as required reading for members of NASA's Expedition Corps astronauts who are preparing for expeditions to the International Space Station and beyond **Bold Endeavors** is of interest to the fields of psychology psychiatry human factors and ergonomics anthropology aerospace engineering space medicine personnel selection organizational management and the history of exploration The chapter on Food is even used as a reference in culinary and hospitality management programs

Lunar Lander Conceptual Design ,1989 **Astronautics & Aeronautics** ,1983-07 **Lost in Space** Greg Klerkx, 2005-01-11 The daring revolutionary NASA that sent Neil Armstrong to the moon has lost its meteoric vision says journalist and space enthusiast Greg Klerkx NASA he contends has devolved from a pioneer of space exploration into a factionalized bureaucracy focused primarily on its own survival And as a result humans haven't ventured beyond Earth orbit for three decades Klerkx argues that after its wildly successful Apollo program NASA clung fiercely to the spotlight by creating a government sheltered monopoly with a few Big Aerospace companies Although committed in theory to supporting commercial spaceflight in practice it smothered vital private sector innovation In striking descriptions of space milestones spanning the golden 1960s Space Age and the 2003 Columbia tragedy Klerkx exposes the real NASA and envisions exciting public private cooperation that could send humans back to the moon and beyond

A Short Trip to Mars AADG, 2012-03-09 The story a **Short Trip to Mars** is a fictional story about the first exploratory mission to the Planets surface The story is a fictional

adventure of three convicts who were sent to Mars for six years However the story is based on the real concepts of the AADG 1147 01 Project The story is a demonstration of how components of the project work and what their applications is The facts and the components are completely real There are no aliens or first contact situations in the story However the story is not dry The main characters are a group of convicts who are selected for this mission because of the unusual orbit of Mars and safety issues They are sent on this first mission because as the unified International Space Administration states there are to many unknown variables involved in sending a high quality crew The crew makes some interesting discoveries as to the Martian surface and Martian history They become a unified team when confronted with the conditions On Mars and build a highly involved relationship with each other The story is unique in circumstance which give light to the way we look at space exploration and it s future If you don t know much about space travel or the angry Red Planet you will when you finish this book **Future NASA Space Programs** United States. Congress. Senate. Aeronautical and Space Sciences,1969

Independent Offices and Department of Housing and Urban Development Appropriations, 1968 United States. Congress. House. Committee on Appropriations. Subcommittee on Independent Offices and Department of Housing and Urban Development,1967 **Wings in Orbit** Government Printing Office,2011-04-08 NOTE NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT OVERTOCK SALE Significantly reduced list price Wings in Orbit is an authoritative documentation of the many accomplishments of the NASA Space Shuttle Program Starting with a foreword written by astronauts John Young and Robert Crippen this compelling book provides accurate authentic and easily understood accounts from NASA s best subject matter experts and external resources The book captures the passion of those who devoted their energies to the Program s success for more than three decades It focuses on their science and engineering accomplishments the rich history of the program and the shuttle as an icon in U S history No other book on the market has accumulated as many experts and resources on this subject nor broken it down in such easy to understand language with compelling imagery With the Shuttle Program coming to a close consumers will be inclined to purchase this book as it provides comprehensive information on this historic program as it ends its 30 year run The promotions for this book will definitely benefit from the publicity of this historic event Other related products NASA s Contributions to Aeronautics Vols 1 2 is available here <https://bookstore.gpo.gov/products/sku/033-000-01334-5> Leadership in Space Selected Speeches of NASA Administrator Michael Griffin May 2005 October 2008 is available here <https://bookstore.gpo.gov/products/sku/033-000-01314-1> Dressing for Altitude U S Aviation Pressure Suits Wiley Post to Space Shuttle ePub format is available for purchase through the Apple iBookstore Please use ISBN 9780160915604 to search for this title in their platform Revolutionary Atmosphere The Story of the Altitude Wind Tunnel and the Space Power Chambers is available here <https://bookstore.gpo.gov/products/sku/033-000-01342-6> Other products produced by NASA can be found here <https://bookstore.gpo.gov/agency/550> **Soft Computing in Case Based Reasoning** Sankar Kumar Pal,Tharam S. Dillon,Daniel S. Yeung,2012-12-06 Soft Computing in Case Based Reasoning

demonstrates how various soft computing tools can be applied to design and develop methodologies and systems with case based reasoning for real life decision making or recognition problems Comprising contributions from experts from all over the world it Provides an introduction to CBR and soft computing and the relevance of their integration Evaluates the strengths and weaknesses of CBR in its current form Presents recent developments and significant applications in domains such as data mining medical diagnosis knowledge based expert systems banking and forensic investigation Addresses new information on developing intelligent systems This book will be of particular interest to graduate students and researchers in computer science electrical engineering and information technology but it will also be of interest to researchers and practitioners in the fields of systems design pattern recognition and data mining Scientific and Technical Aerospace Reports ,1995 **Wings in Orbit** Wayne Hale,Helen Woods Lane,United States. National Aeronautics and Space Administration,2010 Explains how the space shuttle works and describes a shuttle trip from lift off to touchdown

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