



Space Discovery Program

Minjie Lin



Space Discovery Program:

NASA's Discovery Program Susan Niebur, David Brown, 2023-11-15 The Discovery Program is the most important NASA robotic planetary spacecraft program most laypeople have never heard of Started in the early 1990s this program has funded a series of relatively small focused and innovative missions to the planets and small bodies of the solar system Notable ones include Mars Pathfinder NEAR Near Earth Asteroid Rendezvous Shoemaker Deep Impact MESSENGER and the Kepler space telescope At the end of the 1980s there was growing discomfort in the science community with NASA's planetary exploration program Almost the whole planetary budget went to a handful of large expensive missions which had been significantly delayed by the national policy of using only the Space Shuttle as a launch vehicle An attempt to create a lower cost Planetary Observer spacecraft series produced only one mission Mars Observer which significantly overran its budget in part because it had to be redesigned for an expendable booster after the Challenger shuttle accident of January 1986 Opportunities for small relatively simple missions were absent A new attempt to create a low cost planetary program came primarily from two would be reformers Stamatis Tom Krimigis a space physicist heliophysics at the Johns Hopkins Applied Physics Laboratory APL and Wesley T Huntress head of NASA's Solar System Exploration Division and then Associate Administrator for Space Science By the end of the 1990s the program's approach to cutting edge low cost missions jibed well with then NASA Administrator Dan Goldin's push for a faster better cheaper approach to spacecraft development Researched and written initially by the late Susan Niebur the former Discovery program scientist this book takes an in depth look at the innovative management techniques that program engineers and scientists used to stimulate creative spacecraft designs that yielded useful scientific data about our solar system David Brown polished the raw manuscript which was largely based on insightful oral histories that Niebur had conducted with other program personnel making it accessible to lay readers **NASA's Space Science Programs** United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Space and Aeronautics, 2007 Principal-Investigator-Led Missions in the Space Sciences National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Principal-Investigator-Led Missions in the Space Sciences, 2006-04-22 Principal Investigator Led PI led missions are an important element of NASA's space science enterprise While several NRC studies have considered aspects of PI led missions in the course of other studies for NASA issues facing the PI led missions in general have not been subject to much analysis in those studies Nevertheless these issues are raising increasingly important questions for NASA and it requested the NRC to explore them as they currently affect PI led missions Among the issues NASA asked to have examined were those concerning cost and scheduling the selection process relationships among PI led team members and opportunities for knowledge transfer to new PIs This report provides a discussion of the evolution and current status of the Piled mission concept the ways in which certain practices have affected its performance and the steps that can carry it successfully into the future The study was done in

collaboration with the National Academy of Public Administration *NASA Historical Data Book: NASA launch systems, space transportation, human spaceflight, and space science, 1989-1998*, 1988 **NASA Historical Data Book: NASA launch systems, space transportation**, 1988 **NASA historical data book, Volume 7: NASA Launch Systems Space Transportation/Human Space Flight**, 1988 [A Dictionary of Space Exploration](#) Stephen O'Meara, E. Julius Dasch, 2018-06-21 With over 2 300 entries this fascinating and expansive dictionary covers all aspects of space exploration from A Train to Zvezda This jargon free new edition has been fully revised and updated to take into account the new developments in space exploration on an international scale over the last thirteen years with new entries such as Hitomi Space X Dragon and Ariane 5 Rocket All entries are fully cross referenced for ease of use and are supported by over 75 photographs illustrations and diagrams In addition to the main definitions this new edition also contains links to over 250 space related websites This authoritative comprehensive and clear dictionary is essential reading for anyone with an interest in astronomy and space travel *Space Exploration For Dummies* Cynthia Phillips, Shana Priwer, 2009-05-04 Your comprehensive guide to remarkable achievements in space Do you long to explore the universe This plain English fully illustrated guide explains the great discoveries and advancements in space exploration throughout history from early astronomers to the International Space Station You ll learn about the first satellites rockets and people in space explore space programs around the world and ponder the controversial question Why continue to explore space Take a quick tour of astronomy get to know the solar system and our place in the galaxy take a crash course in rocket science and live a day in the life of an astronaut Run the Great Space Race trace the growth of the Space Age from Sputnik to the Apollo moon landings and meet the robots that explored the cosmos Watch as space exploration matures from the birth of the Space Shuttle to the creation of the Mir Space Station to successes and failures in Mars exploration see how space programs reached new levels Journey among the planets check out the discoveries made during historic voyages to the inner and outer reaches of the solar system Understand current exploration review the telescopes in space take a tour of the International Space Station and see the latest sights on Mars Look into the future learn about upcoming space missions and increased access to space travel Open the book and find Descriptions of space milestones and future missions An easy to follow chronological structure Color and black and white photos The nitty gritty details of becoming an astronaut A grand tour of the solar system through space missions Explanations of tragedies and narrow escapes Facts on the creation of space stations by NASA and the USSR Ten places to look for life beyond Earth *Space Exploration* Kimberly Masters Evans, 2005 **Space Exploration** Kim Masters Evans, 2006-09 A compilation of current and historical statistics with analysis on Space Exploration **Discovery Program Handbook** United States. Office of Space Science. Solar System Exploration Division, 1992 **AIAA Space Programs and Technologies Conference and Exhibit: 93-4055 - 90-4099**, 1993 **Te HS&T J** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 **Management** Arthur G. Bedeian, 1993 [12th Symposium on Space](#)

Nuclear Power and Propulsion Mohamed S. El-Genk,1995 New York Court of Appeals. Records and Briefs. New York (State)., **Anniversary Specialist Conference on Nuclear Power Engineering in Space** ,1990 **Resources of Near-Earth Space** John S. Lewis,Mildred Shapley Matthews,Mary L. Guerrieri,1993 Out of print since 2006 this book is now available online [Click here](#) A base on the Moon an expedition to Mars Some time in the near future for scientific or cultural reasons humanity will likely decide to pursue one of these fantastic ventures in space How can we increase the scope and reduce the cost of these ambitious activities The parts of the solar system that are most accessible from Earth the Moon the near Earth asteroids Mars and its moons are rich in materials of great potential value to humanity Resources of Near Earth Space explores the possibilities both of utilizing these materials to produce propellants structural metals refractories life support fluids and other materials on site to reduce the costs of space exploration and of providing a source of materials and energy for our own planet that would not be environmentally destructive to Earth This volume summarizes the present state of the art in attempts to realize these possibilities identifying the resources mining and processing transportation and economics As a broad survey of a rapidly evolving field it is intended as a technical introduction to the use of nonterrestrial materials for scientists engineers and industrial and governmental project managers who seek to make space more accessible **AIAA 1995 Space Programs and Technologies Conference** ,1995 **Dublin Examination Papers** Trinity College (Dublin, Ireland),1898

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Table of Contents Space Discovery Program

1. Understanding the eBook Space Discovery Program
 - The Rise of Digital Reading Space Discovery Program
 - Advantages of eBooks Over Traditional Books
2. Identifying Space Discovery Program
 - 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 Space Discovery Program
 - User-Friendly Interface
4. Exploring eBook Recommendations from Space Discovery Program
 - Personalized Recommendations
 - Space Discovery Program User Reviews and Ratings
 - Space Discovery Program and Bestseller Lists

5. Accessing Space Discovery Program Free and Paid eBooks
 - Space Discovery Program Public Domain eBooks
 - Space Discovery Program eBook Subscription Services
 - Space Discovery Program Budget-Friendly Options
6. Navigating Space Discovery Program eBook Formats
 - ePub, PDF, MOBI, and More
 - Space Discovery Program Compatibility with Devices
 - Space Discovery Program Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Space Discovery Program
 - Highlighting and Note-Taking Space Discovery Program
 - Interactive Elements Space Discovery Program
8. Staying Engaged with Space Discovery Program
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Space Discovery Program
9. Balancing eBooks and Physical Books Space Discovery Program
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Space Discovery Program
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Space Discovery Program
 - Setting Reading Goals Space Discovery Program
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Space Discovery Program
 - Fact-Checking eBook Content of Space Discovery Program
 - 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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buffer with the ability to pipe in at the mid tank port

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