

The book was found

# Human Spaceflight: Mission Analysis And Design (Space Technology Series)



## Synopsis

This book includes over 800 rules of thumb and sanity checks that will enable you to identify key issues and errors early in the design process.

## Book Information

Series: Space Technology Series

Paperback: 1064 pages

Publisher: McGraw-Hill Companies; 1 edition (October 26, 1999)

Language: English

ISBN-10: 007236811X

ISBN-13: 978-0072368116

Product Dimensions: 9.2 x 6 x 1.5 inches

Shipping Weight: 2.7 pounds

Average Customer Review: 5.0 out of 5 stars 4 customer reviews

Best Sellers Rank: #507,855 in Books (See Top 100 in Books) #81 in Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction #274 in Books > Engineering & Transportation > Engineering > Aerospace > Astronautics & Space Flight #287 in Books > Textbooks > Engineering > Aeronautical Engineering

## Customer Reviews

The book is the best for Human Spaceflight. Not much more to add. A totally must.Cheers

As a graduate student in space architecture, this is the single most useful book I have found for designing human missions and spacecraft. It is an extraordinary collection of valuable information. Part textbook, part reference manual, the book includes both descriptive text and a wealth of numerical data. It is broken up into 31 chapters, each about 20 to 30 pages long. Each chapter focuses on one aspect of human spaceflight, such as structures, power systems, crew accommodations, or planetary surface vehicles, and each is written by one or more experts in the relevant field. Although the book is designed for people who work with spacecraft for a living, it is very accessible. Anyone with a good grasp of algebra and a strong interest in spaceflight should be able to follow most of it. If I could change one thing about this book, it would be to make it a hardbound edition. My copy is rapidly becoming dog-eared. It's just so blasted useful...

Trade paperback, 1035 pp. Illustrations, charts, graphs, tables. An Introduction to Human

Spaceflight  
Designing Human Space Missions  
The Space Environment -- Hazards and Effects  
Surface Environments  
Physiology of Spaceflight  
Human Factors of Crewed Spaceflight  
Psychology of Spaceflight  
Safety  
Orbit Selection and Astrodynamics  
Entry, Descent, Landing, and Ascent  
Designing and Sizing Space Elements  
Vehicles  
Designing, Sizing, and Integrating a Surface Base  
Planetary Vehicles  
In-situ Resources  
Thermal Control  
Environmental Controls and Life Support Systems  
Crew Accommodations  
Attitude Determination and Control  
Designing Power Systems  
Structures  
Extravehicular Activity Systems  
Space Robotics  
Propulsion Systems  
Selecting Launch and Transfer Vehicles  
Mission Operations for Crewed Spaceflight  
Command, Control, and Communications Architecture  
Space Logistics Support  
Estimating the Cost  
International Crewed Missions  
Mars Design Example  
Appendix: Inertias of Geometric Primitives  
Appendix: Explanation of Earth Satellite Parameters  
Index  
Glossary of Acronyms

this book is indispensable for anyone designing systems, vehicles or facilities for human space flight.

[Download to continue reading...](#)

Human Spaceflight: Mission Analysis and Design (Space Technology Series)  
Space Mission Analysis and Design (Space Technology Library)  
Amazing Stories of the Space Age: True Tales of Nazis in Orbit, Soldiers on the Moon, Orphaned Martian Robots, and Other Fascinating Accounts from the Annals of Spaceflight  
Homesteading Space: The Skylab Story (Outward Odyssey: A People's History of Spaceflight)  
Abundance by Design: Discover Your Unique Code for Health, Wealth and Happiness with Human Design (Life by Human Design Book 1)  
Spaceflight Dynamics (McGraw-Hill Series in Aeronautical and Aerospace Engineering)  
LSC Understanding Space: An Introduction to Astronautics + Website (Space Technology Series)  
Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills)  
Nursing: Human Science And Human Care (Watson, Nursing: Human Science and Human Care)  
Launch Vehicles  
Pocket Space Guide: Heritage of the Space Race (Pocket Space Guides)  
Design for Space: Soviet and Russian Mission Patches  
How to Make a Spaceship: A Band of Renegades, an Epic Race, and the Birth of Private Spaceflight  
TALES OF WAR PILOT (Smithsonian History of Aviation and Spaceflight)  
Leaving Orbit: Notes from the Last Days of American Spaceflight  
Apollo Pilot: The Memoir of Astronaut Donn Eisele (Outward Odyssey: A People's History of Spaceflight)  
Breaking the Chains of Gravity: The Story of Spaceflight before NASA  
To a Distant Day: The Rocket Pioneers

(Outward Odyssey: A People's History of Spaceflight) In the Shadow of the Moon: A Challenging Journey to Tranquility, 1965-1969 (Outward Odyssey: A People's History of S) (Outward Odyssey: A People's History of Spaceflight) Ask the Astronaut: A Galaxy of Astonishing Answers to Your Questions on Spaceflight Understanding Space: An Introduction to Astronautics, 3rd Edition (Space Technology)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)