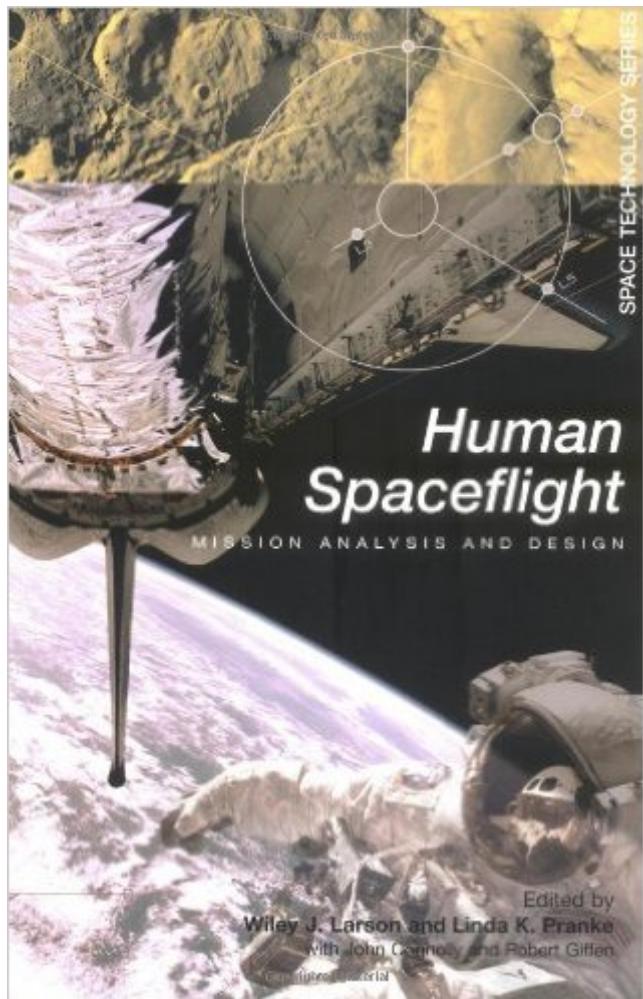


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# Human Spaceflight: Mission Analysis And Design (Space Technology Series)



## **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)

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Product Dimensions: 9.2 x 6 x 1.5 inches

Shipping Weight: 2.7 pounds

Average Customer Review: 5.0 out of 5 stars See all reviews (3 customer reviews)

Best Sellers Rank: #910,635 in Books (See Top 100 in Books) #125 in Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction #455 in Books > Engineering & Transportation > Engineering > Aerospace > Astronautics & Space Flight #460 in Books > Textbooks > Engineering > Aeronautical Engineering

## **Customer Reviews**

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.

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