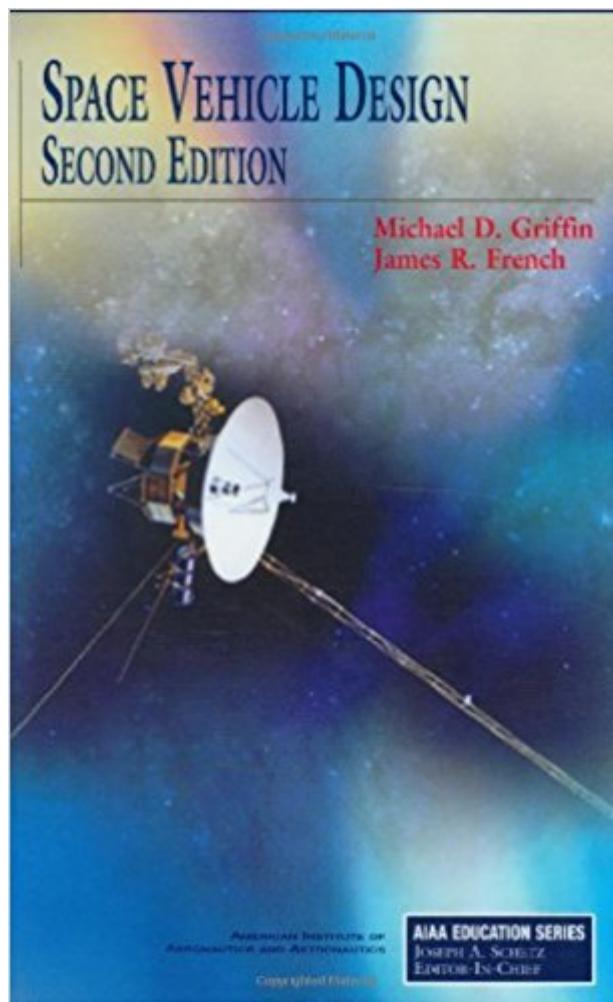


The book was found

# Space Vehicle Design, Second Edition (AIAA Education)



## Synopsis

The second edition of this text continues to fulfil the book's original goal in linking and integrating many disciplines relevant to the field of space systems engineering. It contains an additional chapter on reliability analysis, new technical material and numerous homework problems.

## Book Information

Series: AIAA Education

Hardcover: 665 pages

Publisher: AIAA (American Institute of Aeronautics & Astronautics); 2nd Enlarged ed. edition (February 23, 2004)

Language: English

ISBN-10: 1563475391

ISBN-13: 978-1563475399

Product Dimensions: 6.4 x 1.3 x 9.2 inches

Shipping Weight: 2.8 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 4 customer reviews

Best Sellers Rank: #399,414 in Books (See Top 100 in Books) #63 in Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction #210 in Books > Engineering & Transportation > Engineering > Aerospace > Astronautics & Space Flight #224 in Books > Textbooks > Engineering > Aeronautical Engineering

## Customer Reviews

"The best, the most comprehensive, the most up-to-date resource for today's engineering challenges in space systems design."

Griffin has participated in many different space missions while employed at Computer Science Corporation, the NASA Jet Propulsion Laboratory, the Applied Physics Laboratory of The Johns Hopkins University, the American Rocket Company, and the Strategic Defense Company, and the Strategic Defense Initiative Organization. As an adjunct professor at the University of Maryland, The Johns Hopkins University, and George Washington University, he has taught a variety of courses in aerospace engineering and applied mathematics. French worked at the Rocketdyne Division of Rockwell International after receiving his BSME from MIT.

Mike is an AWESOME mentor. The book explains things very well and I recommend above the

others. I used it while working on a 6DOF for a fuel consumption study. I have also used the book on some video game work.

I used this book in a space vehicle design class. If you intend to use this text to gain a broad understanding of the basic design considerations for space vehicles, I believe you will be satisfied. If, however, you would like to go into depth regarding rocket propulsion, orbital mechanics, structural/vibration analysis, reentry, etc. look for a text which is devoted to those topics. This text does cover such topics as well as others but is lacking in detail. There are some good examples throughout each chapter and problems at the end of each chapter.

I had to buy this book for one of my college courses. It is very informative and I learned much from this book, but reading it is incredibly boring. It is such a dry read.

This is a good introduction to spacecraft design. The author, Michael D. Griffin is a former NASA administrator. The layout and content of this text are similar to other spacecraft design books such Spacecraft Systems Engineering by Peter Fortescue, Graham Swinerd and John Stark. Since all space design books look about the same, it is just a matter of personal preference to choose the favorite one. This book cover all of the classical topic of space vehicle design: space environment, orbital mechanics, spacecraft dynamics, propulsion, structure, attitude control, telecommunication, thermal control, electrical systems. However, don't expect to became a specialist in each of these topics with this single book, you must refer to specialized text. For propulsion, look at Rocket Propulsion Element. Nevertheless, you will find interesting and useful information from a design perspective. For example, you will learn that the F-1 engine's gas generator is started by the head pressure of the tank.

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

Space Vehicle Design, Second Edition (AIAA Education) The Fundamentals of Aircraft Combat Survivability Analysis and Design, Second Edition (AIAA Education) Aircraft Engine Design, Second Edition (AIAA Education) Introduction to Aircraft Flight Mechanics: Performance, Static Stability, Dynamic Stability, Classical Feedback Control, and State-Space Foundations (AIAA Education) Vehicle Maintenance Log: Vehicle Maintenance Log Template: Car Maintenance â “ Reminder | Log Book | Mileage Log | Repairs And Maintenance | Everything ... | 5.5 x 8.5â • small & compact (Volume 1) Vehicle and Traffic Law of the State of New York (Softcover) (Vehicle and Traffic Law of New York) Bug Out Vehicle: A Step-By-Step Guide On How To Build An Affordable and Quality

Survival Vehicle To Evacuate Your Home In An Emergency Disaster Scenario Build the Perfect Bug Out Vehicle: The Disaster Survival Vehicle Guide Aircraft Design: A Conceptual Approach, Fourth Edition (AIAA Education) Introduction to Aeronautics: A Design Perspective, 2nd Edition (Aiaa Education Series) Elements of Propulsion: Gas Turbines and Rockets, Second Edition (Aiaa Education) Hypersonic and High-Temperature Gas Dynamics, Second Edition (AIAA Education) Designing Unmanned Aircraft Systems: A Comprehensive Approach, Second Edition (AIAA Education Series) Aircraft Design: A Conceptual Approach (Aiaa Education Series) Fundamentals of Aircraft and Airship Design (AIAA Education Series) Elements of Spacecraft Design (AIAA Education) The YC-14 STOL Prototype: Its Design, Development, and Flight Test (AIAA Education) Space Vehicle Mechanisms: Elements of Successful Design Introduction to Aeronautics, Third Edition (AIAA Education Series) An Introduction to the Mathematics and Methods of Astrodynamics, Revised Edition (Aiaa Education Series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)