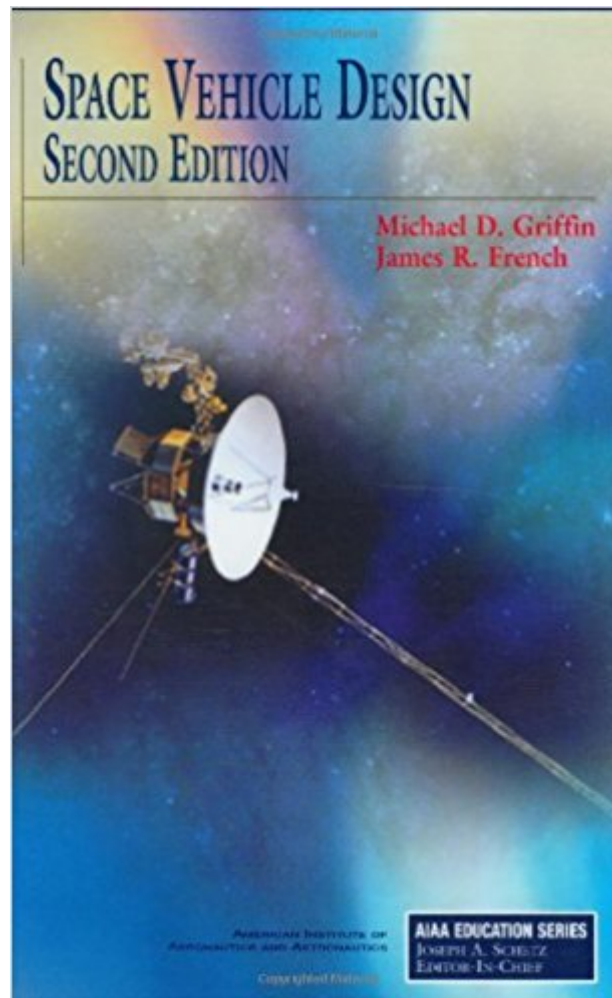




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Space Vehicle Design, Second Edition (AIAA Education)



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

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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 become 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.

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