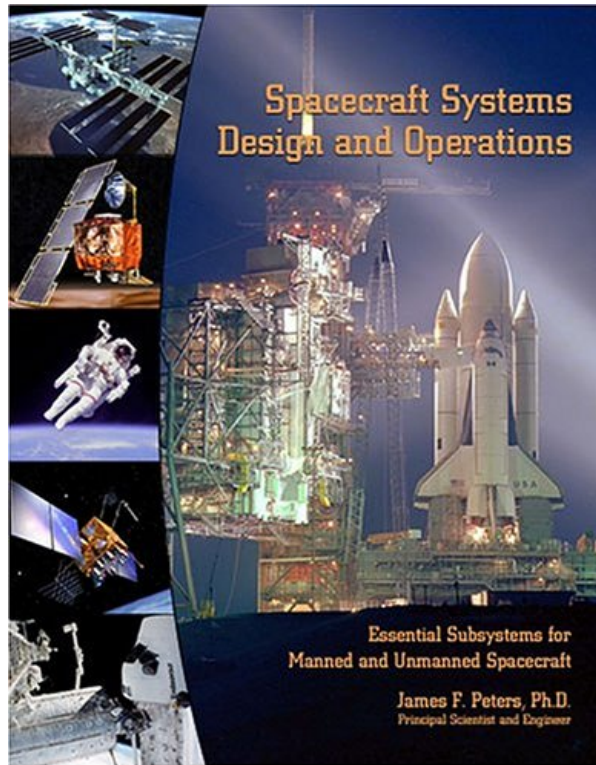
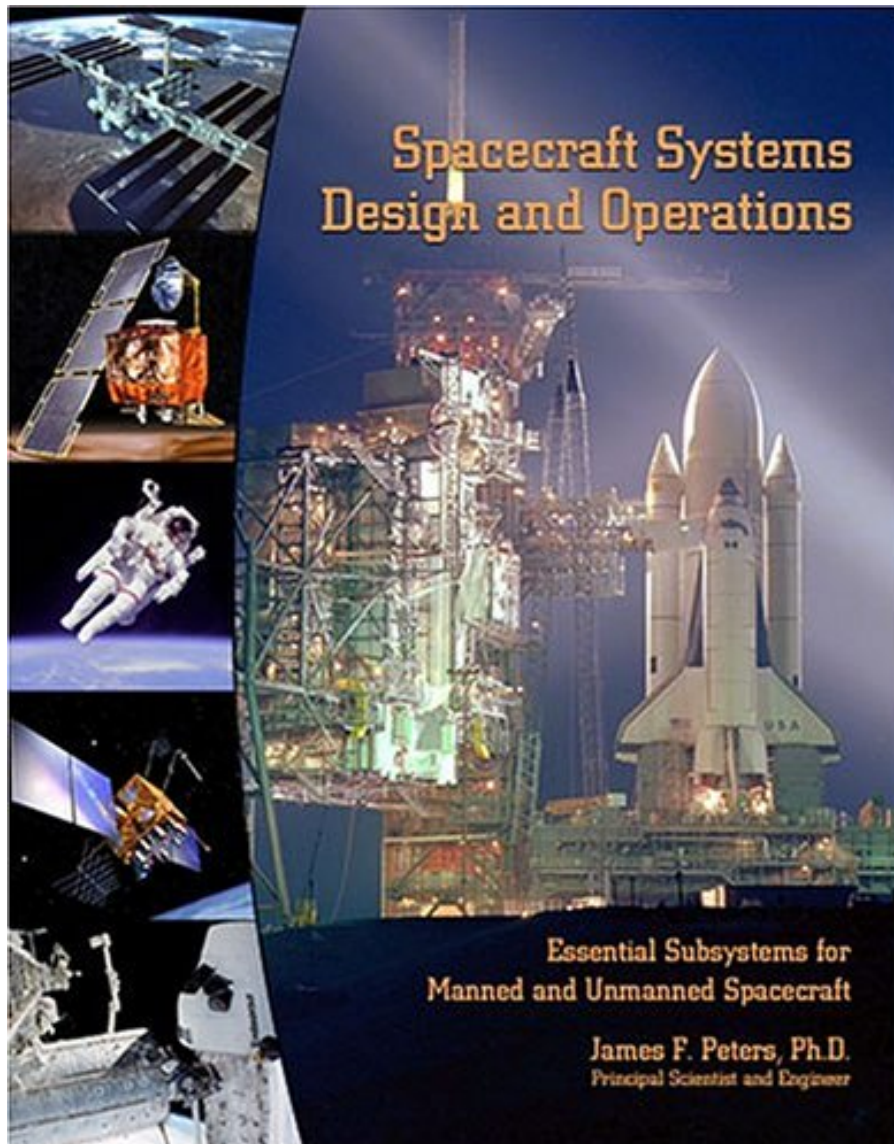


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Awesome to read.

By Blkpylut

Ironically my instructor in my current MAS program wrote this book. It is very easy to read. The chapters are just long enough to get through and the information is pleasant to read.

This book was written at the graduate level, but most undergrads can handle as well. Well written.

Sam

5 of 5 people found the following review helpful.

An Excellent Introduction To Spacecraft Design And Operations

By Robert I. Hedges

"Spacecraft Systems Design and Operations" is an excellent Shuttle-centric book on spacecraft design and operation. The author, Dr. James F. Peters, is very good at making extremely complex subjects comprehensible, and his thoughts are clear and are lucidly expressed. Peters begins with a historical background, then promptly moves into chapter two, "Orbits and Environments," which is an excellent introduction to the subject. Moving from basics such as Newton's and Kepler's laws, Peters thoroughly explains the concept of the state vector and its six components (semi-major axis, eccentricity, true anomaly, inclination, right ascension of the ascending node, and argument of perigee) and expands the concept into a discussion of orbital determination. Useful orbits are discussed, with High Earth Orbits (HEO,) elliptical orbits, polar orbits, and particularly geosynchronous orbits receiving detailed attention. Plane changes, transfers, posigrade and retrograde maneuvers are also discussed, all of which culminates in an explanation of interplanetary navigation. For those wanting a more mathematically rigorous explanation of this material, I recommend "Introduction to Space Flight" by Francis J. Hale.

The space environment is well-covered (Van Allen Belts, cosmic rays, South Atlantic Anomaly, etc.) and segues into a discussion of vehicle operations. The operations section is fairly comprehensive, and discusses both normal operations and contingency operations. Shuttle launch abort modes are discussed in some detail. While much of the book revolves around the Shuttle, the International Space Station and unmanned vehicles are also discussed.

My favorite part of the book deals with spacecraft systems architecture and functionality. I was especially fond of the "Guidance, Navigation and Control" section and found the discussion of the Shuttle Inertial Measurement System to be fascinating. (It's especially fascinating to contrast with the IMU and navigation system installed on Apollo.) Propulsion is also well covered, and the explanations of vehicle dynamics and various propulsion systems are great. Other systems are also explained in readable detail, with the coverage of the electrical system on the Shuttle proving especially strong. The appendices are also strong, with loads of useful data presented in logical formats.

At the end of the book, Peters writes an exceptionally strong conclusion, comparing and contrasting the US Manned Spaceflight Tragedies of Apollo 1, Challenger, and Columbia. The chapter sums up the risks and rewards of spaceflight and makes clear that space is an environment extremely intolerant of error. I thought it fitting that Peters chose to close with a quote from Apollo 1 Commander Gus Grissom: "If we die we want people to accept it. We're in a risky business, and we hope that if anything happens to us it will not delay the program. The conquest of space is worth the risk of life."

I truly enjoyed this book, and recommend it highly to anyone interested in spaceflight. Dr. Peters excels at explaining complex concepts. In a business absolutely riddled with complex concepts, this book is a standout.

4 of 4 people found the following review helpful.

Excellent Purchase

By Benjamin C. Sides

I got this book for a graduate class. It is a very informational and easy to read. It is a very long book, but I read over a hundred pages in a little over an hour. I'm not very good a reading and I was able to read this book and comprehend with no problems. I would say it is a great buy for anyone. In fact, I wouldn't have minded reading this book without taking the graduate class.

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