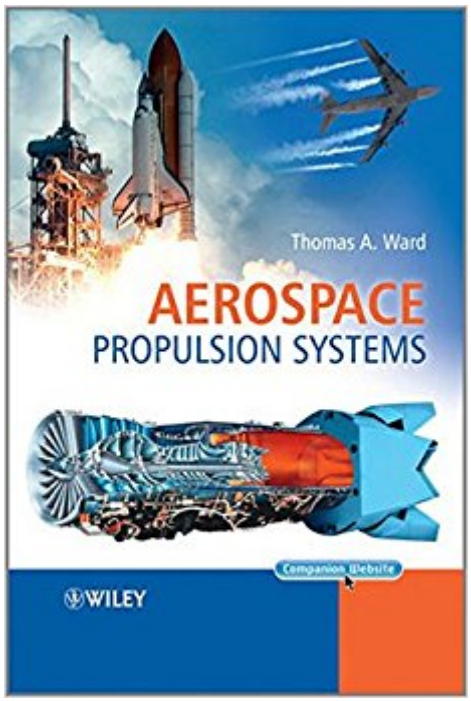
Aerospace Propulsion Systems



Synopsis

Aerospace Propulsion Systems is a unique book focusing on each type of propulsion system commonly used in aerospace vehicles today: rockets, piston aero engines, gas turbine engines, ramjets, and scramjets. Dr. Thomas A. Ward introduces each system in detail, imparting an understanding of basic engineering principles, describing key functionality mechanisms used in past and modern designs, and provides guidelines for student design projects. With a balance of theory, fundamental performance analysis, and design, the book is specifically targeted to students or professionals who are new to the field and is arranged in an intuitive, systematic format to enhance learning. Â Covers all engine types, including piston aero engines Design principles presented in historical order for progressive understanding Focuses on major elements to avoid overwhelming or confusing readers Presents example systems from the US, the UK, Germany, Russia, Europe, China, Japan, and India Richly illustrated with detailed photographs Cartoon panels present the subject in an interesting, easy-to-understand way Contains carefully constructed problems (with a solution manual available to the educator) Lecture slides and additional problem sets for instructor use Advanced undergraduate students, graduate students and engineering professionals new to the area of propulsion will findÂ Aerospace Propulsion Systems a highly accessible guide to grasping the key essentials. Field experts will also find that the book is a very useful resource for explaining propulsion issues or technology to engineers, technicians, businessmen, or policy makers. Post-graduates involved in multi-disciplinary research or anybody interested in learning more about spacecraft, aircraft, or engineering would find this book to be a helpful reference. Lecture materials for instructors available at www.wiley.com/go/wardaero

Book Information

Hardcover: 448 pages
Publisher: Wiley; 1 edition (May 17, 2010)
Language: English
ISBN-10: 0470824972
ISBN-13: 978-0470824979
Product Dimensions: 7 x 1.2 x 9.9 inches
Shipping Weight: 2.4 pounds (View shipping rates and policies)
Average Customer Review: 3.9 out of 5 stars 3 customer reviews
Best Sellers Rank: #191,887 in Books (See Top 100 in Books) #17 inÂ Books > Engineering & Transportation > Engineering > Aerospace > Propulsion Technology #106 inÂ Books >

Engineering & Transportation > Engineering > Aerospace > Astronautics & Space Flight #113 inÂ Books > Textbooks > Engineering > Aeronautical Engineering

Customer Reviews

Aerospace Propulsion Systems is a unique book focusing on each type of propulsion system commonly used in aerospace vehicles today: rockets, piston aero engines, gas turbine engines, ramjets, and scramjets. Dr. Thomas A. Ward introduces each system in detail, imparting an understanding of basic engineering principles, describing key functionality mechanisms used in past and modern designs, and provides guidelines for student design projects. With a balance of theory, fundamental performance analysis, and design, the book is specifically targeted to students or professionals who are new to the field and is arranged in an intuitive, systematic format to enhance learning. Covers all engine types, including piston aero engines Design principles presented in historical order for progressive understanding Focuses on major elements to avoid overwhelming or confusing readers Presents example systems from the US, the UK, Germany, Russia, Europe, China, Japan, and India Richly illustrated with detailed photographs Cartoon panels present the subject in an interesting, easy-to-understand way Contains carefully constructed problems (with a solution manual available to the educator) Lecture slides and additional problem sets for instructor use Advanced undergraduate students, graduate students and engineering professionals new to the area of propulsion will findÂ Aerospace Propulsion Systems a highly accessible guide to grasping the key essentials. Field experts will also find that the book is a very useful resource for explaining propulsion issues or technology to engineers, technicians, businessmen, or policy makers. Post-graduates involved in multi-disciplinary research or anybody interested in learning more about spacecraft, aircraft, or engineering would find this book to be a helpful reference. Lecture materials for instructors available at www.wiley.com/go/wardaero

Great book for Aerospace Engineering class

I have taken prop systems in the past and the other book i have used was better. This one contains a lot of typos.

This textbook is a good introduction on airbreathing propulsion and rocket propulsion systems but remains very basic. If you don’t know anything about aerospace propulsion but you has some basics knowledge in fluid mechanics and thermodynamics, this is a good point to start. However,

this book clearly doesn’t worth the listed price (about $140-150) since more advanced books are available for a comparable price.

Theory of Aerospace Propulsion, Second Edition (Aerospace Engineering) Theory of Aerospace Propulsion (Aerospace Engineering) Aerospace Propulsion Systems Secrets of Antigravity Propulsion: Tesla, UFOs, and Classified Aerospace Technology Mechanics and Thermodynamics of Propulsion (Addison-Wesley Series in Aerospace Science) Fundamentals of Jet Propulsion with Applications (Cambridge Aerospace Series) Aerospace Propulsion Understanding Aerospace Chemical Propulsion High-Speed Flight Propulsion Systems (Progress in Astronautics and Aeronautics) Electrogravitics Systems: Reports on a New Propulsion Methodology Nanotechnology: Understanding Small Systems, Third Edition (Mechanical and Aerospace Engineering Series) Principles of Sustainable Energy Systems, Second Edition (Mechanical and Aerospace Engineering Series) Aircraft Systems: Mechanical, Electrical and Avionics Subsystems Integration (Aerospace Series) Aerospace Avionics Systems: A Modern Synthesis Civil Avionics Systems (Aerospace Series) Aerospace Sensor Systems and Applications Introduction to Airborne Radar (Aerospace & Radar Systems (Software)) Nanotechnology: Understanding Small Systems, Second Edition (Mechanical and Aerospace Engineering Series) Fundamentals Of Information Systems Security (Information Systems Security & Assurance) - Standalone book (Jones & Bartlett Learning Information Systems Security & Assurance) Mechanics and Thermodynamics of Propulsion (2nd Edition)