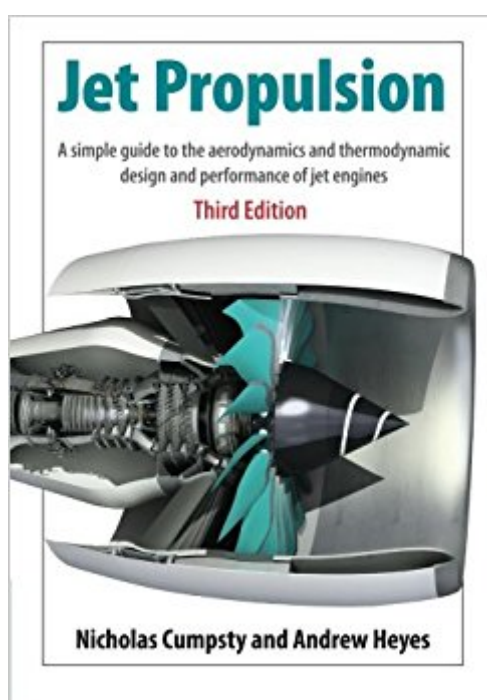


The book was found

Jet Propulsion: A Simple Guide To The Aerodynamics And Thermodynamic Design And Performance Of Jet Engines



Synopsis

This book is a self-contained introduction to the aerodynamic and thermodynamic design of modern civil and military jet engine design. Through two engine design projects for a large passenger and a new fighter aircraft, the text explains modern engine design. Individual sections cover aircraft requirements, aerodynamics, principles of gas turbines and jet engines, elementary compressible fluid mechanics, bypass ratio selection, scaling and dimensional analysis, turbine and compressor design and characteristics, design optimization, and off-design performance. The civil aircraft, which was the core of the Part 1 of earlier editions, has now been in service for several years as the Airbus A380. Attention in the aircraft industry has now shifted to two-engine aircraft with a greater emphasis on reduction of fuel burn, so the model created for Part 1 is the new efficient aircraft, a twin aimed at high efficiency.

Book Information

Paperback: 365 pages

Publisher: Cambridge University Press; 3 edition (July 22, 2015)

Language: English

ISBN-10: 1107511224

ISBN-13: 978-1107511224

Product Dimensions: 6.8 x 0.8 x 9.7 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #860,775 in Books (See Top 100 in Books) #79 in [Books > Engineering & Transportation > Engineering > Aerospace > Propulsion Technology](#) #150 in [Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction](#) #478 in [Books > Textbooks > Engineering > Aeronautical Engineering](#)

Customer Reviews

"This book provides an excellent overview of the thermodynamic analysis and performance of turbojet based engines for the aircraft industry. ... The book includes an excellent set of example questions for each section which are given a relevant contemporary context. ... This is an excellent resource for anyone wishing to use this as a textbook as part of an undergraduate aerospace engineering programme. The authors have used their extensive industrial links to develop a textbook that is not only useful to undergraduate students on any programme covering aero gas turbine engines but would find a suitable place on the desk of professionals working in the industry."

K. L. Smith, The Aeronautical Journal

This book is a self-contained introduction to the design of modern civil and military jet engines through two engine design projects for a large passenger and a new fighter aircraft. Numerous exercises, with solutions for the instructor, are included. The book emphasizes principles enriched by industrial examples from the author's experience.

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

Jet Propulsion: A Simple Guide to the Aerodynamics and Thermodynamic Design and Performance of Jet Engines Foundations of Aerodynamics: Bases of Aerodynamics Design A Simple Guide To Understanding Jet Engines Jet Engines: Fundamentals of Theory, Design and Operation JPL and the American Space Program: A History of the Jet Propulsion Laboratory (The Planetary Exploration Series) Fundamentals of Jet Propulsion with Applications (Cambridge Aerospace Series) Architecture and Systems Ecology: Thermodynamic Principles of Environmental Building Design, in three parts Allied Aircraft Piston Engines of World War II: History and Development of Frontline Aircraft Piston Engines Produced by Great Britain and the United States (Premiere Series Books) Mortal Engines (Mortal Engines #1) Airplane Design, Part II : Preliminary Configuration Design and Integration of the Propulsion System The Development of Jet and Turbine Aero Engines Making Jet Engines in World War II: Britain, Germany, and the United States Start Your Own Zine: Jet Lambert's Gumption Guides: Everything You Need to Know to Put it Into Print (Jet Lambert Gumption Guide) 99 F-16's - US Airforce Fighter Jet Aircraft Pictures, USAF F-16 Fighter Jet Planes photo book. Time's Arrow: The Origins of Thermodynamic Behavior (Dover Books on Physics) Thermodynamic Foundations of the Earth System Quantum Thermodynamics: Emergence of Thermodynamic Behavior Within Composite Quantum Systems (Lecture Notes in Physics) Thermodynamic Properties Of Isomerization Reactions Airplane Aerodynamics and Performance Eyes Turned Skyward: An Introduction to Aerospace Engineering with Emphasis on Aerodynamics and Aircraft Performance Analysis

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)