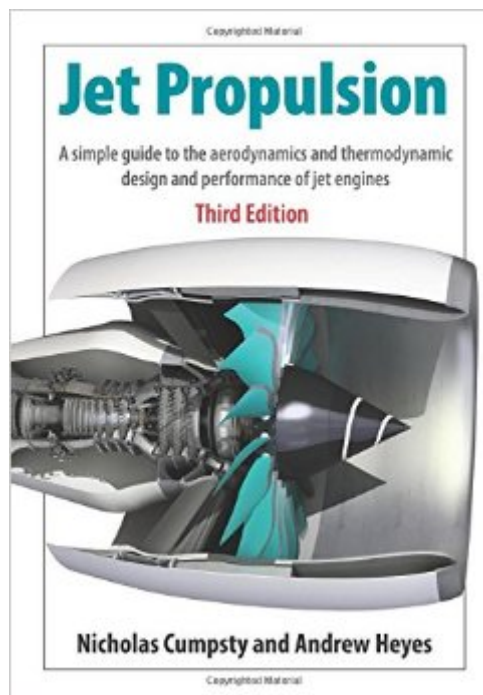


The book was found

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: 12.6 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #320,874 in Books (See Top 100 in Books) #27 in Books > Engineering & Transportation > Engineering > Aerospace > Propulsion Technology #35 in Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction #151 in Books > Textbooks > Engineering > Aeronautical Engineering

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

Jet Propulsion: A Simple Guide to the Aerodynamics and Thermodynamic Design and Performance of Jet Engines JPL and the American Space Program: A History of the Jet Propulsion Laboratory (The Planetary Exploration Series) Architecture and Systems Ecology: Thermodynamic Principles of Environmental Building Design, in three parts Ducted Fan Design: Volume 1 - Propulsion Physics and Design of Fans and Long-Chord Ducts Time's Arrow: The Origins of Thermodynamic Behavior (Dover Books on Physics) Space Propulsion Analysis and Design LSC Space Propulsion Analysis and Design with Website Aircraft Propulsion Systems Technology and Design (AIAA Education

Series) (Reynolds Series in Sociology) How to Rebuild GM LS-Series Engines (S-A Design) The Illustrated Guide to Aerodynamics Illustrated Guide to Aerodynamics Network Performance and Optimization Guide: The Essential Network Performance Guide For CCNA, CCNP and CCIE Engineers (Design Series) Super Simple Paper Airplanes: Step-By-Step Instructions to Make Planes That Really Fly From a Tri-Plane to a Jet Fighter Mechanics and Thermodynamics of Propulsion (2nd Edition) Secrets of Antigravity Propulsion: Tesla, UFOs, and Classified Aerospace Technology Aerothermodynamics of Gas Turbine and Rocket Propulsion (AIAA Education Series) Rocket Propulsion Elements Zinn and the Art of Triathlon Bikes: Aerodynamics, Bike Fit, Speed Tuning, and Maintenance Fundamentals of Aerodynamics (Mcgraw-Hill Series in Aeronautical and Aerospace Engineering) Introduction to Flight Testing and Applied Aerodynamics (Aiaa Education Series)

[Dmca](#)