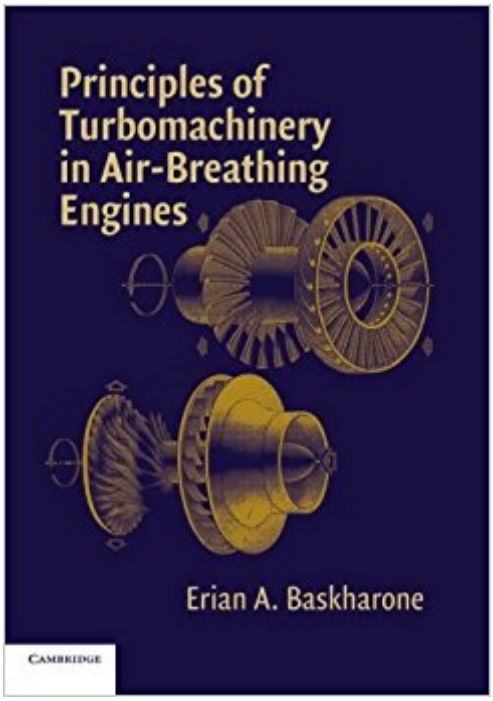
Ebook Directory
the best source of ebook

The book was found

Principles Of Turbomachinery In Air-Breathing Engines (Cambridge Aerospace Series)



PDF
Adobe
DOWNLOAD EBOOK

Synopsis

This book begins with a review of basic thermodynamics and fluid mechanics principles to motive their application to aerothermodynamics and real-life design issues. The approach is ideal for the reader who will face practical situations and design decisions in the gas turbine industry. Among its features are an emphasis on the role of entropy in assessing machine performance, a timely review of flow structures, revisiting the subsonic and supersonic De Laval nozzle as it applies to bladed turbomachinery components, and an applied review of boundary layer principles. The book highlights the importance of invariant properties across a turbomachinery component in carrying out real computational tasks.

Book Information

Series: Cambridge Aerospace Series (Book 18)

Paperback: 600 pages

Publisher: Cambridge University Press; Reprint edition (August 11, 2014)

Language: English

ISBN-10: 1107417406

ISBN-13: 978-1107417403

Product Dimensions: 7 x 1.2 x 10 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #668,304 in Books (See Top 100 in Books) #60 inÃ Â Books > Engineering & Transportation > Engineering > Aerospace > Propulsion Technology #372 inÃ Â Books > Textbooks > Engineering > Aeronautical Engineering #896 inÃ Â Books > Science & Math > Astronomy & Space Science > Aeronautics & Astronautics

Customer Reviews

This book is intended for advanced undergraduate and graduate students in mechanical and aerospace engineering taking a course commonly called Principles of Turbomachinery or Aerospace Propulsion. The book begins with a review of basic thermodynamics and fluid mechanics principles to motive their application to aerothermodynamics and real-life design issues. This approach is ideal for the reader who will face practical situations and design decisions in the gas turbine industry. The text is fully supported by over 200 figures, numerous examples, and homework problems.

Erian Baskharone is a Professor Emeritus of Mechanical and Aerospace Engineering at Texas A&M University and a member of the Rotordynamics/Turbomachinery Laboratory Faculty. Professor Baskharone has taught the turbomachinery course for the past fifteen years. Baskharone recieved his PhD from the University of Cincinnati and worked in the design department of what has become GE Engines before entering the academic world.

The book introduces the theory and operating principles of turbomachinery in air breathing engines. The book gives a comprehensive coverage of a wide range of topics including basic thermodynamics, fluid mechanics, aerothermodynamics, subsonic and supersonic De Laval nozzle as it applies to bladed turbomachinery components, boundary layer principles, aircraft and space flight engines designs, engine materials, components and structures. The fundamental concepts of turbomachinery design for air breathing engines are spelled out.The book provides an excellent foundation in turbomachinery in air breathing engines theory for aerospace or mechanical engineers. It is presented at the graduate and senior undergraduate level and provides a comprehensive coverage of all the fundamentals in a student-friendly manner that also works well as a professional reference.The book is well written and well organized and facilitates learning by laying a firm base and then building on that foundation.

Download to continue reading...

Principles of Turbomachinery in Air-Breathing Engines (Cambridge Aerospace Series) Air Fryer: Air Fryer Cookbook: Air Fryer Recipes: Healthy, Quick, & Easy Air Fryer Recipes for You & Your Family (Air Fryer, Air Fryer Cookbook, Air Fryer Recipes Book 1) AIR FRYER: TOP 35 Easy And Delicious Recipes In One Cookbook For Everyday Life (Air Fryer Recipe Book, Air Fryer Cooking, Air Fryer Oven, Air Fryer Baking, Air Fryer Book, Air Frying Cookbook) AIR FRYER COOKBOOK: 135 AMAZINGLY DELICIOUS QUICK & EASY AIR FRYER RECIPES (air fryer healthy recipes, air fryer paleo, air fryer ultimate, air fryer gluten free, air fryer ketogenic) Air Plants: A Beginners Guide To Understanding Air Plants, Growing Air Plants and Air Plant Care (Air Plants, Ornamental Plants, House Plants) Air Plants: Everything that you need to know about Air Plants in a single book (air plants, air plant care, terrarium, air plant book) Air Fryer Cookbook: 450 Amazingly Healthy & Delicious Air Fryer Recipes. (With Nutrition Facts of Each & Every Recipe) (Air fryer Cookbook, Air fryer Recipes, Air fryer Recipe Book) Air Fryer Cookbook: Healthy & Easy Air Fryer Recipes for Everyone (Air Fryer Recipe Book, Air Fryer Cooking, Best Air Fryer Recipes) Air Fryer Recipes: The Ultimate Air Fryer Recipes Book for Your WHOLE Family - Includes 101+ Delicious & Healthy Recipes That Are Quick & Easy to Make for Your Air Fryer (Air Fryer Series) Air Fryer Cookbook:

365 Days of Air Fryer Cookbook - 365 Healthy, Quick and Easy Recipes to Fry, Bake, Grill, and Roast with Air Fryer (Everything Complete Air Fryer Book, Vegan, Paleo, Pot, Meals) BOOK BUNDLE: The complete set of 3 awesome Air Fryer cookbooks: Air Fryer Made Simple, Air Fryer Advanced, Air Fryer Ultimate. Make pro level dishes from the comfort and privacy of Your kitchen! Air Fryer Cookbook: The Quick & Easy Guide to Delicious Air Fryer Meals - Air Fryer Recipes - Complete Air Fryer Guide Air Fryer Ultimate Cookbook - 2nd Edition: The Quick & Easy Guide to Delicious Air Fryer Meals - Air Fryer Recipes - Complete Air Fryer Guide Air Fryer Recipes Cookbook: Delicious 123 Recipes to Fry, Bake, Grill, and Roast with Your Air Fryer(Air Fryer Cookbook, Oil Free Cookbook,Healthy Air Fryer Recipes) Barely Breathing (The Breathing Series, Book 2) Fluid Mechanics and Thermodynamics of Turbomachinery, Seventh Edition Theory of Aerospace Propulsion, Second Edition (Aerospace Engineering) Theory of Aerospace Propulsion (Aerospace Engineering) Allied Aircraft Piston Engines of World War II: History and Development of Frontline Aircraft Piston Engines Produced by Great Britain and the united (Premiere Series Books) Super Power Breathing: For Super Energy, High Health & Longevity (Bragg Super Power Breathing for Super Energy)

Contact Us

DMCA

Privacy

FAQ & Help