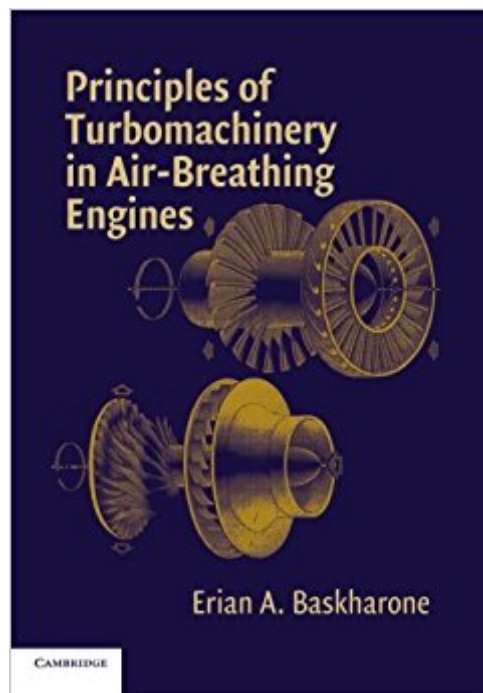




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Principles Of Turbomachinery In Air-Breathing Engines (Cambridge Aerospace Series)



Synopsis

This book begins with a review of basic thermodynamics and fluid mechanics principles to motivate 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

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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 motivate 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 received 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.

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