

Principles Of Turbomachinery In Air Breathing Engines

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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.

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5.0 out of 5 stars Useful and Enlightening. Reviewed in the United States on March 19, 2007. 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 ...

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This text covers the basic principles of turbomachinery in a clear, practical presentation that ties theory logically and rigorously with the design and application part of turbomachines such as centrifugal compressors, centrifugal pumps, axial flow compressors, steam and gas turbines, and hydraulic turbines.

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Pumps have thousands of uses, and are the true basis to turbomachinery (Škorpič, 2017). Air compressors- Air compressors are another very popular turbomachine. They work on the principle of compression by sucking in and compressing air into a holding tank. Air compressors are one of the most basic turbomachines.

Turbomachinery - Wikipedia

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