

Principles Of Turbomachinery In Air Breathing Engines

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Principles of turbomachinery in air-breathing engines

Fundamental principles 1.1 Introduction An important class of fluid machine has, as its characteristic, the transfer of energy between a continuous stream of fluid and an element rotating about a fixed axis. Such a machine is classed as a turbomachine: fans, pumps, compressors and

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turbines come into this group.

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Turbomachinery, in mechanical engineering, describes machines that transfer energy between a rotor and a fluid, including both turbines and compressors. While a turbine transfers energy from a fluid to a rotor, a compressor transfers energy from a rotor to a fluid. These two types of machines are governed by the same basic relationships including Newton's second Law of Motion and Euler's pump ...

Turbomachinery - Wikipedia

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