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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

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turbomachine: fans, pumps, compressors and turbines come into this group.

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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 ...

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