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Principles of Turbomachinery - Second Edition. R.K. Turton. Pumps, fans, compressors and turbines are essential components in all engineering complexes. This book explains the basic fluid mechanics and thermodynamics underlying their design in a clear and uncomplicated way, with many examples and worked exercises.

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The book provides among the best explanations I've come across on turbomachinery principles - for example, the energy transfer between a rotor and the working fluid, etc. Some of the concepts are slightly dated, but the book provides an excellent foundation for understanding turbomachinery principles and concepts.

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

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Principles of turbomachinery by R. K. Turton, 1995, Chapman & Hall edition, in English - 2nd ed.

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With this second revised and extended edition, the readers have a solid source of information for designing state-of-the art turbomachinery components and systems at hand. Based on fundamental principles of turbomachinery thermo-fluid mechanics, numerous CFD based calculation methods are being developed to simulate the complex 3-dimensional, highly unsteady turbulent flow within turbine or compressor stages.

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The analysis and design principles for centrifugal compressors and radial inflow turbines contains problems for solution, some easy, some hard. See what you 12 Jan 2015 Principles of Turbomachinery Second edition R.K. TURTON Senior first edition described and the common solutions adopted are outlined.

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