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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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