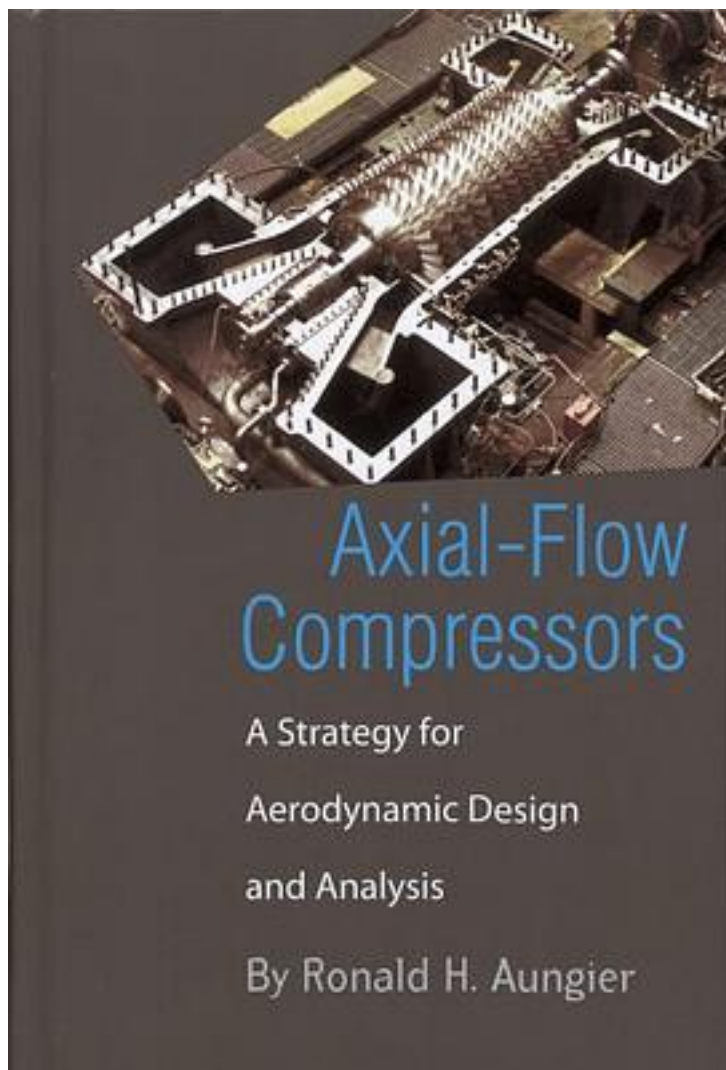


# Axial Flow Compressors



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This exciting new text provides a thorough description of an aerodynamic design and analysis system for axial flow compressors. It describes the basic fluid dynamic and thermodynamic principles, empirical models and numerical methods used for the full range of procedures and analytical tools that an engineer needs for virtually any type of axial flow compressor aerodynamic design or analysis activity. It reviews and evaluates several design strategies that have been recommended in the literature or which have been found to be effective. The contents include: Introduction; Thermodynamics; Fluid mechanics; Axial flow compressor blade profiles; Two dimensional blade to blade flow through cascades of blades; Empirical performance models based on two dimensional cascade tests; Meridional throughflow analysis; End wall boundary layer analysis; Aerodynamic performance analysis; Compressor stage aerodynamic design; Multistage axial flow compressor aerodynamic design; Quasi threedimensional blade passage flow field analysis; Other components and variations; and, Answers to the Exercises.

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