



Fluid Mechanics and Thermodynamics of Turbomachinery

S Larry Dixon, Cesare Hall

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Turbomachinery is a challenging and diverse field, with applications for professionals and students in many subsets of the mechanical engineering discipline, including fluid mechanics, combustion and heat transfer, dynamics and vibrations, as well as structural mechanics and materials engineering. Originally published more than 40 years ago, *Fluid Mechanics and Thermodynamics of Turbomachinery* is the leading turbomachinery textbook. Used as a core text in senior undergraduate and graduate level courses this book will also appeal to professional engineers in the aerospace, global power, oil & gas and other industries who are involved in the design and operation of turbomachines. For this new edition, author S. Larry Dixon is joined by Cesare Hall from the University of Cambridge, whose diverse background of teaching, research and work experience in the area of turbomachines is well suited to the task of reorganizing and updating this classic text.

*Provides the most comprehensive coverage of the fundamentals of turbomachinery of any text in the field

*Content has been reorganized to more closely match how instructors currently teach the course, with coverage of fluid mechanics and thermodynamics moved to the front of the book

*Includes new design studies of several turbomachines, applying the theories developed in the book

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