

## Fluid Mechanics Thermodynamics Of Turbomachinery Solutions

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### Fluid Mechanics Thermodynamics Of Turbomachinery

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Fluid Mechanics and Thermodynamics of Turbomachinery is the leading turbomachinery book due to its balanced coverage of theory and application. Starting with background principles in fluid mechanics and thermodynamics, the authors go on to discuss axial flow turbines and compressors, centrifugal pumps, fans, and compressors, and radial flow gas turbines, hydraulic turbines, and wind turbines.

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The chapter presents the basic physical laws of fluid mechanics and thermodynamics, developing them into a form suitable for the study of turbomachines such as the continuity of flow equation, the first law of thermodynamics and the steady flow energy equation, the momentum equation, and the second law of thermodynamics.

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Fluid Mechanics and Thermodynamics of Turbomachinery Seventh Edition S. L. Dixon, B. Eng., Ph.D. Honorary Senior Fellow, Department of Engineering, University of Liverpool, UK C. A. Hall, Ph.D. University Senior Lecturer in Turbomachinery, University of Cambridge, UK AMSTERDAM • BOSTON • HEIDELBERG • LONDON • NEW YORK • OXFORD • PARIS

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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.

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