



# Fluid Mechanics and Thermodynamics of Turbomachinery, Fifth Edition

By S Larry Dixon B.Eng. Ph.D.

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The new edition will continue to be of use to engineers in industry and technological establishments, especially as brief reviews are included on many important aspects of Turbomachinery, giving pointers towards more advanced sources of information. For readers looking towards the wider reaches of the subject area, very useful additional reading is referenced in the bibliography. The subject of Turbomachinery is in continual review, and while the basics do not change, research can lead to refinements in popular methods, and new data can emerge.

This book has applications for professionals and students in many subsets of the mechanical engineering discipline, with carryover into thermal sciences; which include fluid mechanics, combustion and heat transfer; dynamics and vibrations, as well as structural mechanics and materials engineering.

- An important, long overdue new chapter on Wind Turbines, with a focus on blade aerodynamics, with useful worked examples
- Includes important material on axial flow compressors and pumps
- Example questions and answers throughout



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### Editorial Review

#### From the Publisher

Turbomachinery embraces a number of devices that are classified as 'open', such as propellers, windmills and unshrouded fans. The machines examined here are those defined as 'closed', where a finite quantity of fluid can be considered to pass through the machine in unit time, for it is these which are of the most interest to students and professionals in the fields of mechanical, chemical, and plant engineering. It is in these areas that the devices that form the subject matter of this book find their most important applications, making this treatment of vital importance to anyone working in or studying them.

#### From the Back Cover

The theory and technology of Turbomachinery continually evolves and while the basics do not change, research can lead to refinements in popular methods, while new data can emerge from industry. For example, research is currently being conducted in methods of computational fluid dynamics analysis, resulting in gradual improvements in those analytical methods and effecting major changes in the way research in Fluid Mechanics is conducted and presented. This new edition of *Fluid Mechanics and Thermodynamics of Turbomachinery* has 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. Brief reviews are included on many important aspects of Turbomachinery, giving pointers towards more advanced sources of information. Key Features:  
·An important, long overdue new chapter on Wind Turbines, with a focus on blade aerodynamics, with useful worked examples ·Includes important material on axial flow compressors and pumps ·Provides example questions and answers throughout

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#### About the Author

Dr. Dixon has published numerous scientific research papers in turbomachinery and lectured in turbomachinery at the University of Liverpool for nearly 40 years. For 25 of those years he was Chief Examiner in Mechanics for the Council of Engineering Institutions in the UK.

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