



Fluid Mechanics and Thermodynamics of Turbomachinery, Sixth Edition

By S. Larry Dixon B.Eng. Ph.D., Cesare Hall Ph.D.

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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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Editorial Review

Review

"This enduring turbomachinery textbook has been around since 1966 and is entering its sixth edition this year. Changes from the previous edition reflect advances in the field. The authors tell us in the preface, for example, that the text puts more emphasis on the effects of compressibility, reflecting "advances in the use of higher flow and blade speeds in turbomachinery." - review in Mechanical Engineering

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.

Dr. Hall has been University Lecturer in turbomachinery at the University of Cambridge since 2005. His current research with the university's Silent Aircraft Initiative has led to the development of radical new ideas for aircraft engine design. Prior to teaching, he worked at Rolls-Royce as a turbomachinery aerodynamicist.

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