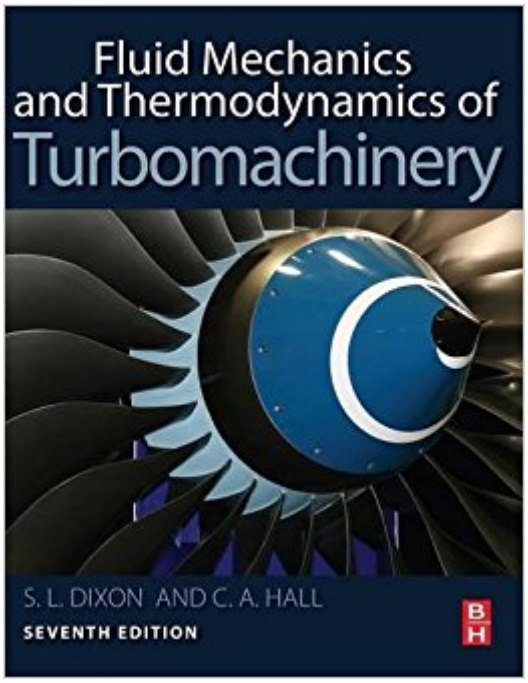
Fluid Mechanics And Thermodynamics Of Turbomachinery, Seventh Edition



Synopsis

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. In this new edition,more coverage is devoted to modern approaches to analysis and design, including CFD and FEA techniques. 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. More coverage of a variety of types of turbomachinery, including centrifugal pumps and gas turbinesAddition of numerical and computational tools, including more discussion of CFD and FEA techniques to reflect modern practice in the areaMore end of chapter exercises and in-chapter worked examples

Book Information

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Customer Reviews

"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

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 universityâ ™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.

Fast delivery great book

Well write, with good documentation.

This is a good book that is easy to follow. It does skip over some things, but if you are using with a class, you'll be fine.

A GOOD TEXT BOOK, CLEARLY EXPLAINING CONCEPTS INVOLVED.

Great Buy!

I am a professor and used this book for teaching turbomachines. This is the WORST textbook I ever had in teaching. There are too many mistakes and typos in the textbook and solution manuals! Most of them are obvious and some others are hard to tell! I cannot believe this is the 7th edition. It took me too much time to fix those errors! When I pointed this out to the publisher, they ignored my email!

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