

# AEROTHERMODYNAMICS OF TURBOMACHINERY

## Analysis and Design

Naixing Chen



 WILEY

# Aerothermodynamics Of Turbomachinery Analysis And Design By Naixing Chen 2010 06 21

**W. C. Tsay, Cranfield Institute of Technology**



## **Aerothermodynamics Of Turbomachinery Analysis And Design By Naixing Chen 2010 06 21:**

Aerothermodynamics of Turbomachinery Naixing Chen, 2010-06-21 Computational Fluid Dynamics CFD is now an essential and effective tool used in the design of all types of turbomachine and this topic constitutes the main theme of this book. With over 50 years of experience in the field of aerodynamics, Professor Naixing Chen has developed a wide range of numerical methods covering almost the entire spectrum of turbomachinery applications. Moreover, he has also made significant contributions to practical experiments and real life designs. The book focuses on rigorous mathematical derivation of the equations governing flow and detailed descriptions of the numerical methods used to solve the equations. Numerous applications of the methods to different types of turbomachine are given and in many cases the numerical results are compared to experimental measurements. These comparisons illustrate the strengths and weaknesses of the methods, a useful guide for readers. Lessons for the design of improved blading are also indicated after many applications. Presents real world perspective to the past, present and future concern in turbomachinery. Covers direct and inverse solutions with theoretical and practical aspects. Demonstrates huge application background in China. Supplementary instructional materials are available on the companion website. Aerothermodynamics of Turbomachinery Analysis and Design is ideal for senior undergraduates and graduates studying in the fields of mechanics, energy and power and aerospace engineering design engineers in the business of manufacturing compressors, steam and gas turbines and research engineers and scientists working in the areas of fluid mechanics, aerodynamics and heat transfer. Supplementary lecture materials for instructors are available at [www.wiley.com/go/chenturbo](http://www.wiley.com/go/chenturbo). **Aerothermodynamics of Turbomachinery** Naixing Chen, 2011-09-23

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