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Within turbomachinery my view is that understanding the cascade view, velocity triangles and reaction form three threshold concepts, perhaps minor ones compared to the much

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bigger ideas such as "reactive power" or "opportunity cost" that are also proposed but this view has significantly influenced the production of this book.

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word turbo or turbinis is of Latin origin and implies that which spins or whirls around.

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include: re-session change (Lawson, 1994; Lethem 2006, 2002), moving from a problem saturated talk to solution-focused talk (Langdrige, 2006; Lethem 2002; Talyor, 2005), looking at the exception to the problem (Ruddick, 2008), viewing change as a constant, recognizing that

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Fluid Mechanics and Thermodynamics  
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manufacturing, industrial operations, and consumer products. The main purpose of this book, organized in 13 chapters, is to present a comprehensive overview of recent advances in noise control and its applications in different research fields. The authors provide a range of

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practical applications of current and past noise control strategies in different real engineering problems. It is well addressed to researchers and engineers who have specific knowledge in acoustic problems. I would like to thank all the authors who accepted my invitation and

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agreed to share their work and experiences.

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allowing instructors to customize and tailor their courses for their students  
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Computational Fluid Dynamics (CFD)

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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

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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

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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



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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

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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

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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

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since the Second Edition was published in 1993. Airfoils in modern turbomachines feature three-dimensional geometries, Computational Fluid Mechanics (CFD) has become a standard design tool, and major advances have been made in the materials and manufacturing

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technologies that affect turbomachinery design. The new edition addresses these trends to best serve today's students, and design engineers working in turbomachinery industries.

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clear understanding of key aspects in machining function, selection, assembly, and construction. Offering a wide range of illustrative examples, the book evaluates the components of incompressible and compressible fluid flow machines and analyzes the kinematics and dynamics of

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turbomachines with valuable definitions, diagrams, and dimensionless parameters.

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