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John D. Anderson's textbooks in aeronautical and aerospace engineering have been a cornerstone of McGraw-Hill's success in the engineering discipline for more than two decades. The fifth SI edition of Fundamentals of Aerodynamics continues to offer the most reliable, interesting and up-to-date resources for students and teachers of aerodynamics. Users of past editions will appreciate the continued use of design boxes, historical contents, plentiful worked examples, chapter-opening road maps and other pedagogical features that play a supporting role in Anderson's focus on fundamental concepts. NEW FEATURES * New

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sections on airplane lift and drag, the blended-wing-body concept, the origin of the swept-wing concept, supersonic flow over cones, hypersonic viscous flow and aerodynamic heating and the design of hypersonic waverider configurations. * Many additional worked examples and homework problems to provide even more key concept practice for students. * Shortened and streamlined Part 4, "Viscous Flow".

In keeping with the successful previous edition, Anderson carries over the second edition content into the third edition while adding selected topics and examples. New coverage on the Computational Fluid Dynamics (CFD) and new illustrations to help the students to understand the basic concepts. More than a dozen "design boxes" are included to help students focus on the practical applications.

Fundamentals of Aerodynamics is meant to be read. The writing style is intentionally conversational in order to make the book easier to read. The book is designed to talk to the reader; in part to be a self-teaching instrument. Learning objectives have been added to each chapter to reflect what is believed to be the most important items to learn from that particular chapter. This edition emphasizes the rich theoretical and physical background of aerodynamics, and marbles in many historical notes to provide a background as to where the aerodynamic technology comes from. Also, new with this edition, are "Integrated Work Challenges" that pertain to the chapter as a whole, and give the reader the opportunity to integrate the material in that chapter, in order

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to solve a "bigger picture". McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

This thesis is concerned with flows through cascades, i.e. periodic arrays of obstacles. Such geometries are relevant to a range of physical scenarios, chiefly the aerodynamics and aeroacoustics of turbomachinery flows. Despite the fact that turbomachinery is of paramount importance to a number of industries, many of the underlying mechanisms in cascade flows remain opaque. In order to clarify the function of different physical parameters, the author considers six separate problems. For example, he explores the significance of realistic blade geometries in predicting turbomachinery performance, and the possibility that porous blades can achieve noise reductions. In order to solve these challenging problems, the author deploys and indeed develops techniques from across the spectrum of complex analysis: the Wiener–Hopf method, Riemann–Hilbert problems, and the Schottky–Klein prime function all feature prominently. These sophisticated tools are then used to elucidate the underlying mathematical and physical structures present in cascade flows. The ensuing solutions greatly extend previous works and offer new avenues for future research. The results are

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not of simply academic value but are also useful for aircraft designers seeking to balance aeroacoustic and aerodynamic effects.

This book is a self-contained text for those students and readers interested in learning hypersonic flow and high-temperature gas dynamics. It assumes no prior familiarity with either subject on the part of the reader. If you have never studied hypersonic and/or high-temperature gas dynamics before, and if you have never worked extensively in the area, then this book is for you. On the other hand, if you have worked and/or are working in these areas, and you want a cohesive presentation of the fundamentals, a development of important theory and techniques, a discussion of the salient results with emphasis on the physical aspects, and a presentation of modern thinking in these areas, then this book is also for you. In other words, this book is designed for two roles: 1) as an effective classroom text that can be used with ease by the instructor, and understood with ease by the student; and 2) as a viable, professional working tool for engineers, scientists, and managers who have any contact in their jobs with hypersonic and/or high-temperature flow.

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