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John D. Anderson Jr. (born October 1, 1937) is the Curator of Aerodynamics at the National Air and Space Museum at the Smithsonian Institution in Washington, DC and Professor Emeritus in the Department of Aerospace Engineering at the University of Maryland, College Park. Biography. John D. Anderson Jr. was born on October 1, 1937 in Lancaster, Pennsylvania.

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2.12 Let  $p_3$ ,  $\rho_3$ , and  $T_3$  denote the conditions at the beginning of combustion, and  $p_4$ ,  $\rho_4$ , and  $T_4$  denote conditions at the end of combustion. Since the volume is constant, and the mass of the gas is

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constant, then  $p_4 = \rho_4 = 11.3 \text{ kg/m}^3$ . Thus, from the equation of state,  $p_4 = \rho_4 RT_4 = (11.3)(287)(4000) = 1.3 \times 10^7 \text{ N/m}^2$

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includes an expanded chapter on hypersonic aerodynamics.

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Offering an up-to-date overview of the field of aerodynamics, this edition covers many of the key concepts and topics, such as linearized supersonic flow and oblique shock and expansion waves. The 6th edition of 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. The 6th 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 to solve

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This introductory text explains methods for obtaining approximate solutions to mathematical problems by exploiting the presence of small, dimensionless parameters. For engineering and physical science undergraduates.

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applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discussions of coordinate systems, new discussion on perturbations and quaternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

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.

Anderson's book provides the most accessible approach to compressible flow for Mechanical and Aerospace Engineering students and professionals. In keeping with previous versions, the 3rd edition uses numerous historical vignettes that show the evolution of the field. New pedagogical features--"Roadmaps" showing the development of a given topic, and "Design Boxes" giving examples of design decisions--will make the 3rd edition even more practical and user-friendly than before. The 3rd edition strikes a careful balance between classical methods of determining

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