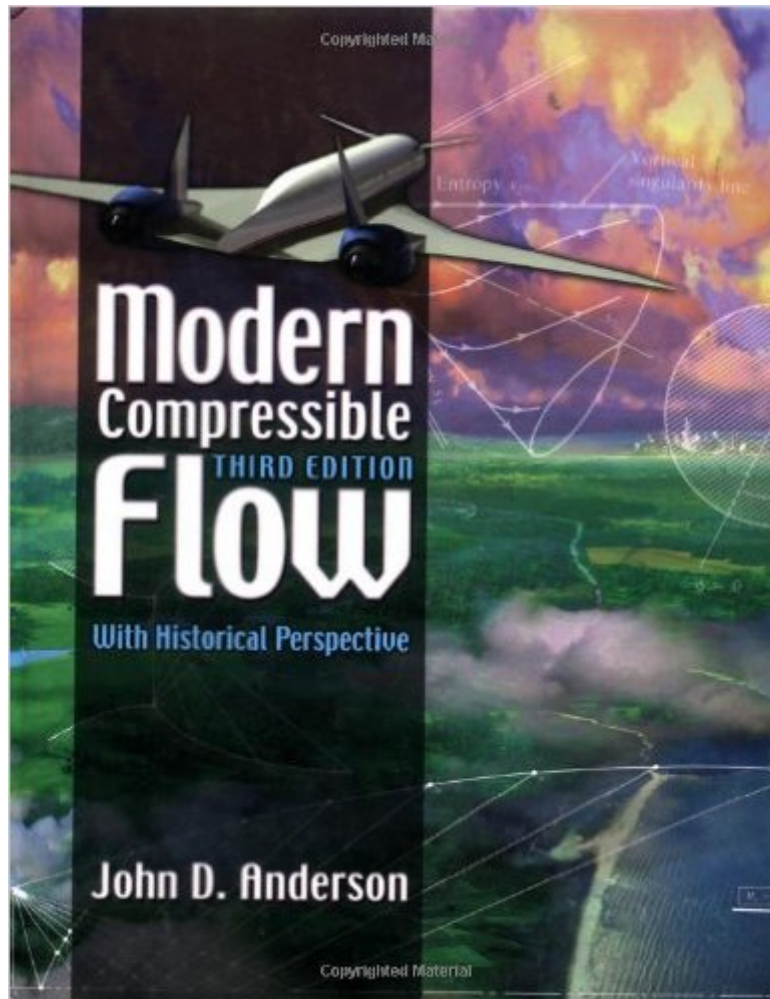


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Modern Compressible Flow: With Historical Perspective



Synopsis

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 compressible flow, and modern numerical and computer techniques (such as CFD) now used widely in industry & research. A new Book Website will contain all problem solutions for instructors.

Book Information

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Customer Reviews

Modern Compressible Flow by Anderson is simply one of the best textbooks I have read during my engineering studies. It was the assigned book for my course in compressible flow and I think the highest praise I am able to give is that the book is the reason that I am now fascinated by the subject as a whole and have taken every opportunity to continue with the subject. I suspect that compressible flow could easily come across as very abstract and as merely an exercise in calculations, but Anderson manages to present the subject in a down to earth manner. He explains every concept such as total quantities (pressure, temperature etc.), shock waves, oblique shock waves, expansion waves and nozzle flow, in plain English and in a gradual manner while relating them to the real world with analogies. He does this each time before any new relations for a topic

are developed. The historical note sections are one example of how the material is put in context with real world phenomenon and applications. Anderson does not make any leaps when deriving the relations in the book, which I personally appreciate because I feel more comfortable with the final result when the steps involved are clear. Any calculation steps which are not explicitly written are easily performed on your own from the clear progression Anderson presents and even without them everything is extremely clear. The numerous examples further show how flow quantities are related and how the relations developed are used under a number of different scenarios. The examples also discuss interesting phenomenon but are never relied on to explain a concept. This is always done before the examples.

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