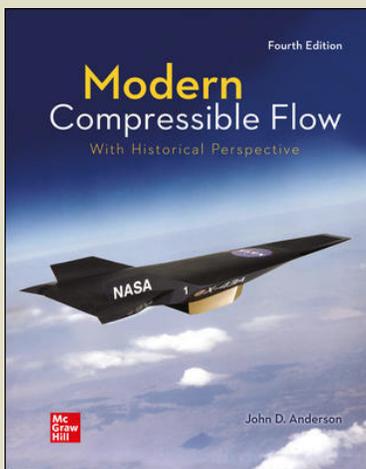


# List of Changes



## Modern Compressible Flow: With Historical Perspective

**4th Edition**

**John Anderson**

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The response to the first three editions of *Modern Compressible Flow: With Historical Perspective*, from students, faculty, and practicing professionals has been overwhelmingly favorable. Therefore, this new edition preserves much of this successful content while adding important new components. It preserves the author's informal writing style that talks to the reader, that gains the readers' interest, and makes the study of compressible flow an enjoyable experience. Moreover, it blends the classical nature of the subject with modern aspects of computational fluid dynamics (CFD) and high temperature gas dynamics so important to modern applications of compressible flow. In short, this book is a unique teaching and learning experience.

SEE LIST OF CHANGES ATTACHED.

## Changes to Anderson: Modern Compressible Flow, 4e

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The response to the first three editions of this book from students, faculty, and practicing professionals has been overwhelmingly favorable. Therefore, the fourth edition carries over much of the fundamental content of the previous edition, plus adding the following important components:

**End-of-chapter problems** have been added to those few chapters that originally had no problems listed. Those particular chapters are heavily theoretically based, and the original purpose was to allow the reader to concentrate on absorbing the theoretical concepts without the additional activity of problem solving. In this new edition, however, problems have been added to these particular chapters in order to obtain a type of “full closure” on understanding the material.

**At the end of every chapter**, and just before the list of problems, a “Suggestions” section has been added. The purpose of these suggestions is to help the reader better understand each end-of-chapter problem and to get started on a right path for the solution of each problem (please note that for many of the problems, there may be several “right paths”). Moreover, each of the suggestions for problem solving helps to more strongly connect the reader with the particular relevant physical and theoretical content in the text reading material.

**Chapter 15 on Hypersonic Flow** has been expanded to recognize the greatly increased interest and current activity in the hypersonic flight regime. Hypersonic flow has many important physical and theoretical features that distinguish it from basic supersonic flow, and these differences are highlighted in Chapter 15. The author feels that the current new activity and interest in the hypersonic flight regime will be long lasting, and Chapter 15 has been expanded with new content and figures with such matters in mind. This expansion is solidly in keeping with the title of this text, namely the “modern” aspects of Modern Compressible Flow.

**Continuing with the theme of “modern”** that has permeated the previous editions, this new edition maintains the content devoted to computational fluid dynamics and high-temperature gas dynamics, two fields of intellectual endeavor that are intrinsically woven into most modern applications of compressible flow.