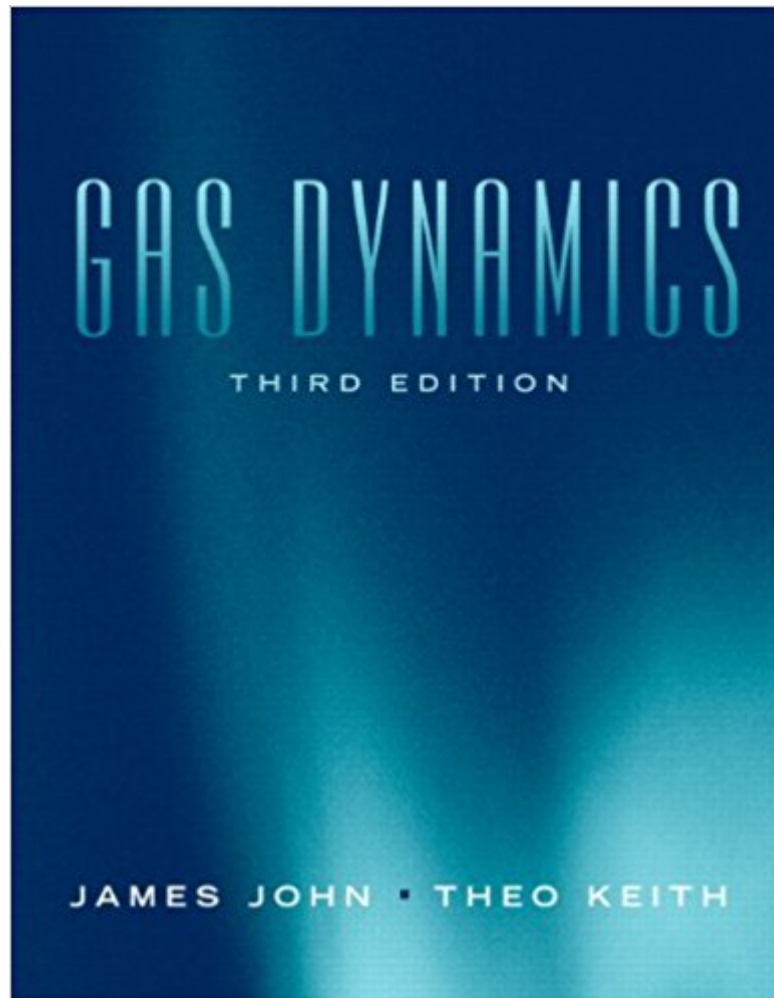




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Gas Dynamics (3rd Edition)



Synopsis

This edition of a very successful and widely adopted book has been brought up-to-date with computer methods and applications throughout. It makes use of spreadsheet programs, and contains unique procedures that have never appeared before in any gas dynamics book. KEY TOPICS Chapter topics include basic equations of compressible flow., wave propagation in compressible media, isentropic flow of a perfect gas, stationary and moving normal shock waves, oblique shock waves, flow with friction and with heat addition or heat loss, equations of motion for multidimensional flow, methods of characteristics, special topics in gas dynamics, and measurement in compressible flow. For mechanical and aerospace engineers.

Book Information

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Customer Reviews

This was my text for Compressible Flow. The book was OK for most purposes required when taking such a class. The examples and explanations were sufficient, granted the examples seemed to lack a bit. The worst part of the book was the feedback one needs before taking an exam. There weren't enough examples, or high enough quality examples, to be enough. I needed answers to some of the homework problems (which were good) to know if I knew what I thought I knew. Well, I had to wing it for the first exam, and it turned out I didn't. Luckily I've gotten hold of an answer key through the typical student grapevine. Unfortunately not all of you can count on such a luxury. I would recommend grabbing a Schaum's Outline for Fluid Mechanics as a start. It covers about the first half of this book. As for the rest of the book, I lucked out with the answer key, so I would highly recommend some supplement, though I wouldn't know what. Good luck. Find a companion text,

and/or get access to some homework answers. Preface Basic Equations of Compressible Flow Wave Propagation in Compressible Media Isentropic Flow of a Perfect Gas Stationary Normal Shockwaves Moving Normal Shockwaves Oblique Shockwaves Prandtl-Meyer Flow Applications Involving Shocks and Expansion Fans Flow with Friction Flow with Heat Addition or Heat Loss Equations of Motion for Multidimensional Flow Exact Solutions Linearized Flow Characteristics Measurements in Compressible Flow Appendix A One-Dimensional Equations of Gas Dynamics for Use in Spreadsheet Programs B Isentropic Flow Tables C Normal Shock Tables D Oblique Shock Tables E Prandtl-Meyer Functions F Fanno Line Flow G Rayleigh Line Flow H Physical Properties of Gases I Standard Atmosphere J Conversion Factors Index

arrived in excellent conditions and exactly what my son needed

Well, it's a textbook. It's getting me through the class and is teaching me quite a bit. It explains everything quite well, but there are some typos, such as the oblique shock charts in the appendix. You could probably get the older version for way cheaper and it'd do the same job as this one.

The BEST book for beginners for Gas Dynamics. Was the student in the same department where the author is Professor Emeritus.

The authors of this textbook rely a little too much on equations to explain crucial concepts. But for those who already know the concepts but are curious about how those equations are derived, I really recommend reading this text book.

Great condition, really expensive though.

Written really well, overall favorite text book

This is a great book! Very easy to read through... it is almost like reading through a lecture, plus some extra details. :-)) It's the perfect support book to do great in your class

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