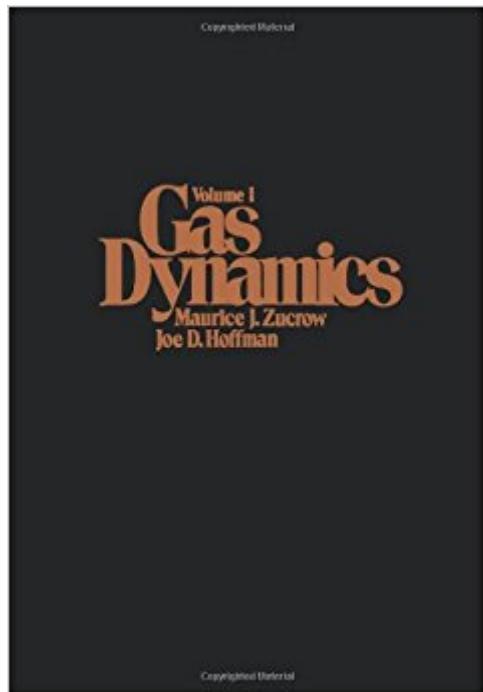


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# Gas Dynamics, Volume 1



## Synopsis

Volume one of the complete and comprehensive guide to gas dynamics The first in a two-volume series, Gas Dynamics, Volume 1 provides the first half a comprehensive treatment of the subject of gas dynamics. Beginning with a review of the fundamental principles, the text then moves on to fully explore other relevant areas of gas dynamics. Readers will study such topics as the governing equations for compressible fluid flow, steady one-dimensional flow, expansion waves, flow with small perturbations, unsteady one-dimensional homentropic flow, and others. The book is then completed with a series of appendices for reference.

## Book Information

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Average Customer Review: 5.0 out of 5 stars 9 customer reviews

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## Customer Reviews

The shipment is fast and the book is good

This book is comprehensive and a great addition to any aerospace library. It is particularly useful for those working in the propulsion discipline.

item reached in a good time pace, condition is just as describes, and I saved a good amount of money.

If you don't already have Zucrow's Gas Dynamics, then perhaps you should. Excellent, lucid read.

Every equation is derived, which is most helpful. Chapter 4 is especially interesting (1D isentropic flow with area change), My only "complaint," if you could consider it so, is that the treatment for Mass Addition in Chapter 9 was far too brief. It is akin to the "ballistic element method" used in some preliminary solid propellant rocket motor design codes such as SPP. Expansion on that topic would be welcomed, and perhaps even a brief treatment about the serious problem of slot flow and vena contracta (mentioned on one page only). Even though that is a 2D/3D problem, it is not even mentioned in Gas Dynamics Volume 2. A great read... Buy This Book!

When I was working in the Skunk Works and needed to shore up my understanding of compressible flow I asked the head thermodynamicist what book I should get. This is what he recommended and I understand why. Everything is started at the very basics and derived from first principles. Rigorous and thorough, yet accessible to yeomen engineers. This is the standard of this subject.

I used this book in Graduate School at Purdue in a Gas Dynamics class taught by the co-author, J.D. Hoffman. A excellent, in-depth text, that starts with the fundamentals and builds. The best and most comprehensive book on the subject I've seen.

Product was shipped late, but they set it right. Well done and thank you. MarkOk, I need 4 more words

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