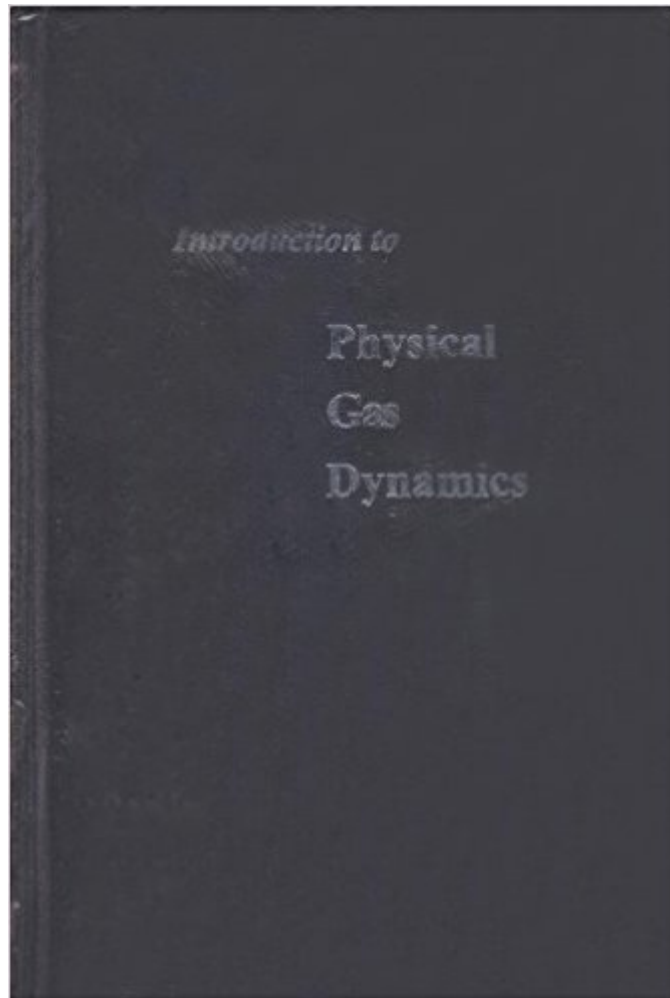




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Introduction To Physical Gas Dynamics



Synopsis

This book is the outgrowth of a series of courses developed and introduced to instruct students in the general features of high-temperature and nonequilibrium gas flows. The aim is to bring students to the point where they can understand more advanced treatises in the relevant sciences, as well as the pertinent research literature in gas dynamics.

Book Information

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Customer Reviews

This is an invaluable resource if your study/work is anywhere in the fields of high temperature or high speed gas dynamics. It is a graduate level text that assumes a grasp of classical thermodynamics. Gives a solid foundation in the areas of statistical thermodynamics and kinetic theory for use in equilibrium and non-equilibrium flow analysis. John D. Anderson references this book in several of his own (if you know who John Anderson is, you know that in itself is a compliment). A large part of the kinetic theory in Anderson's [Hypersonic and High-Temperature Gas Dynamics, Second Edition \(Aiaa Education Series\)](#) is based on this work by Vincenti and Kreuger. My review would be 5 stars if it weren't for the binding. The binding for this edition is cheap and stiff, and is already falling apart from light use. I plan to use this book for a long time, so I am actually looking into the possibility of having it rebound. I sincerely wish I could have gotten hold of an older edition that was well cared for. My boss used this as a textbook when he was getting his master's degree, and has held on to his copy... still in great shape. It stays open to the page you open it to when you set it down, and is still totally intact even after years of heavy use. I've had mine

for about 2 months, and the spine is already tearing because I have to manhandle it to make it stay open.

very good book for gas dynamics and the quality of the book is really very good.

The printing of this book is really poor. It looks like the pages were printed by an ink jet printer from the mid 90's. The text is grainy and there is a lot of bleed-through from the back side of the page making the reading experience tiring. The hardcover binding is nice though.

Good quality. Met the description more or less. Delivered late.

I found it is very easy to follow. So this is a good book for beginners! Besides this book is very classic, though it's old.

This book is a classic which covers everything from deriving Maxwell's distribution from first principles to modeling gases in thermal, chemical, and vibrational nonequilibrium. Covers many topic not covered in courses, and can be read cover to cover, unlike many texts. Buy it before it goes out of print again.

Using it for a course right now. A little technical, but does have a lot of explanations. Highly recommended reference book/textbook.

This book is fairly old and I don't feel that it gives enough example problems.

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