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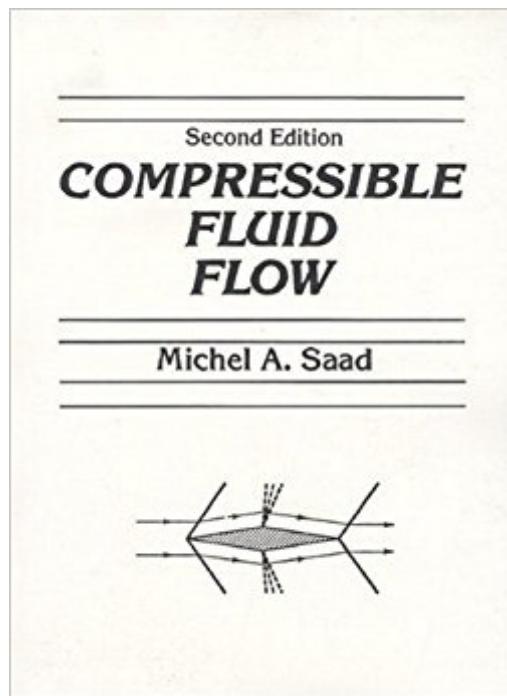
Compressible Fluid Flow (2nd Edition)

Second Edition
COMPRESSIBLE FLUID FLOW

Michel A. Saad

Synopsis

This reference develops the fundamental concepts of compressible fluid flow by clearly illustrating their applications in real-world practice through the use of numerous worked-out examples and problems. The book covers concepts of thermodynamics and fluid mechanics which relate directly to compressible flow; discusses isentropic flow through a variable-area duct; describes normal shock waves, including moving shock waves and shock-tube analysis; explores the effects of friction and heat interaction on the flow of a compressible fluid; covers two-dimensional shock and expansion waves; provides a treatment of linearized flow; discusses unsteady wave propagation and computational methods in fluid dynamics; provides several numerical methods for solving linear and nonlinear equations encountered in compressible flow; offers modern computational methods for solving nonintegrable equations; and describes methods of measurement in high-speed flow. Suitable for the practicing engineer engaged in compressible-flow applications.

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Customer Reviews

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This book makes great reference material in an office for someone working on thermal-fluids type applications. This book is not well written for using in a class, as there are few worked out solutions, or anything to gauge whether or not you are truly grasping the concepts, or simply spinning your wheels.I ended up buying the Anderson textbook in addition halfway through the semester to learn the material, which I found much easier to follow.

An essential book for any mechanical engineering graduate student (or any student studying fluid mechanics). It's well written and delves deep into the topics you'll need to understand in order to be successful.

quick and cheap

I received my book in a very good status and very quickly (less than 4 days. Thanks.

This is wonderful classic text used in Gas Dynamics classes. Well written and easy to follow. I would strongly recommend getting a copy...but not this one. Binding is listed as "Textbook" and when referenced says is is even more durable than a hardcover binding. However, upon recieving this book it is not much more than a bunch of photocopies glued together. Doubt it will last very long....spend the extra $ and get a durable copy.

I used this book way back in 1995 in my last year of Mechanical Engineering. I found this book to be easy to understand, straight forward and helpful. It had alot of good examples and challenging questions at the end of each chapter. I would say that this book is suitable for someone in the industry who wants a good basic review of what they have learned. Definitely not for those higher levels of understanding.

Compressible Fluid Flow (2nd Edition) Modern Compressible Flow: With Historical Perspective.

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