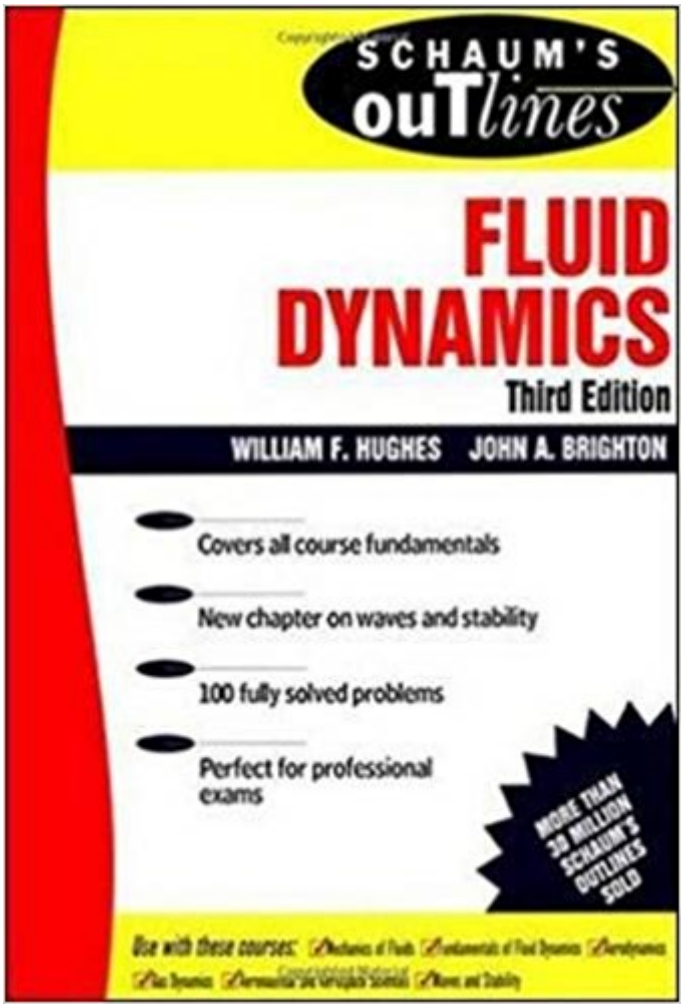
Schaum's Outline Of Fluid Dynamics (Schaum's)



Synopsis

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Customer Reviews

William F. Hughes, Ph.D., is professor of mechanical engineering at Carnegie-Mellon University. He was a National Science Foundation postdoctoral fellow at Cambridge University in England and a Fulbright Fellow at the University of Sydney in Australia. John A. Brighton, Ph.D., is a dean of engineering at Pennsylvania State University and has taught at Purdue, Carnegie-Mellon, Michigan State, and Georgia Tech. Nicholas Winowich, Ph.D., is an associate professor at the University of Tennesee, Knoxville, and a member of one of the foremost computational fluid dynamics research

groups in the country.

Well documented text for Fluid Dynamics. Thank You

Good book, in new condition.

It is a great book.

Excellent reference for post-graduation work

Good product

Good quality.

This book is useful for quick references but I wouldn't depend on it to pass a Fluid Mechanics course.

Fluid mechanics is a vast field. It can be considered a branch of applied physics. Highly mathematical, as can be seen in the problems given in this book by Hughes. He takes you through the field, giving the salient equations used to describe various fluid phenomena.Foremost amongst these is the Navier-Stokes equation. A nonlinear partial differential equation that describes the balancing or conservation of momentum and energy in a fluid. Most of fluid mechanics builds on Navier-Stokes. So you need to get your understanding of it down pat. The problems given for these should be tackled and hopefully solved by you, before going onto later sections in the book. You need a solid grasp of this. It can make the rest much easier.Other chapters describe various important special cases. Like incompressible flow. Or one dimensional flow of a fluid that is compressible. Then expanding this discussion into 2 dimensions.Boundary layer problems are also heavily studied. Important in practice, because these relate to the designing of surfaces of planes or boats or missiles. Which leads naturally into problems of turbulence.Then what if the fluid is charged? Electromagnetic effects [currents] then come into consideration. So Hughes devotes a chapter to magnetohydrodynamics. Students of nuclear fusion or stellar evolution may find this chapter germane.Overall, Hughes gives a broad span of the field. Many problems to sharpen your understanding.

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