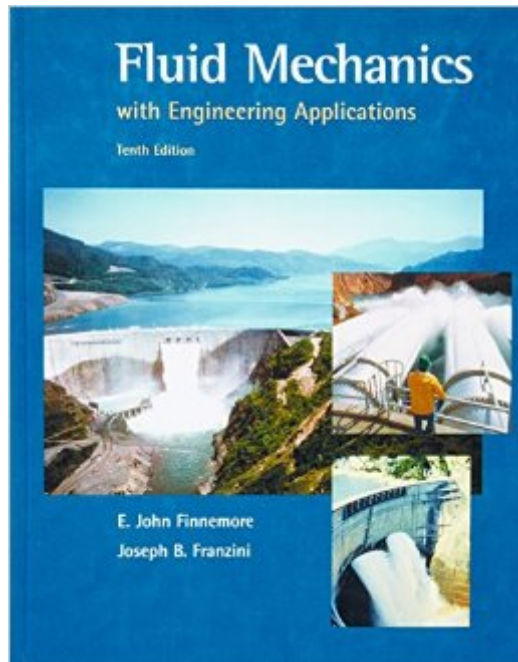


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# Fluid Mechanics With Engineering Applications



## Synopsis

This book is well known and well respected in the civil engineering market and has a following among civil engineers. This book is for civil engineers that teach fluid mechanics both within their discipline and as a service course to mechanical engineering students. As with all previous editions this 10th edition is extraordinarily accurate, and its coverage of open channel flow and transport is superior. There is a broader coverage of all topics in this edition of Fluid Mechanics with Engineering Applications. Furthermore, this edition has numerous computer-related problems that can be solved in Matlab and Mathcad.

## Book Information

Series: McGraw-Hill Series in Industrial Engineering and Management

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Average Customer Review: 3.5 out of 5 stars [See all reviews](#) (17 customer reviews)

Best Sellers Rank: #149,070 in Books (See Top 100 in Books) #20 in [Books > Engineering & Transportation > Engineering > Mechanical > Hydraulics](#) #28 in [Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics](#) #91 in [Books > Science & Math > Physics > Dynamics](#)

## Customer Reviews

As a lecturer and graduate student in water resource engineering, I have read numerous textbooks covering the topic of fluid mechanics. I have reviewed textbooks written by aeronautical and mechanical engineers, and find that the civil engineers, particularly Dr.'s Finnemore and Franzini, have done an exemplary job in writing a book that is clear and logical, yet spares no detail, in presenting the fundamentals of fluids to undergraduates and graduates alike. The book begins with definitions, viscosity, and hydrostatics, then moves along to open-channel hydraulics and waterhammer. The authors discuss the details in terms of concepts, testing, and mathematical computations while using a minimum of complicated vector integrals. They continue to present "the big picture" of hydraulics even while explaining fluid theory - a student and lecturer could not ask for

more. Therefore, it is with great pleasure that I laud this textbook and recommend it to any practicing civil or agricultural engineer, or to any student of engineering.

I own the 8th edition and have used it regularly since graduation 12 years ago as a practicing civil engineer designing water treatment plants. I have looked at many other fluid mechanics books over the years and have not found any equal to this one. I need to get the 10th edition and see how it has changed with Daugherty no longer around. There are other books that are more in-depth with theoretical analysis, but this one has the best balance between theory and practical application for typical civil engineering projects.

Most of the material covered is fairly basic with an emphasis on fluid statics of course (constant velocity flow). I was disappointed to see apparent absence of higher level mathematics. I understand that many of the real problems in fluid dynamics/CFD are approximations of the underlying equations (Navier-Stokes, etc.). However I would like to have seen some of the simpler models of turbulent flow at the very least. The homework problems are very easy.

This book is used for my undergraduate Fluid Mechanics and Applied Fluid Mechanics courses. Like any textbook, it's a little dry and takes getting used to (page markers are essential for this one), but it does the job. I'm definitely keeping it for a long time. Product arrived on time and in good condition.

This book is very poorly written. The examples often have no explanation of the mathematics used, sometimes the examples don't even show the units through the calculation! Not only that, but there are errors in the book that refer you to the wrong equation. Easily the worst textbook I've ever had the displeasure of reading.

This was perfect for my Hydraulics course this fall. The paperback version seemed to match my classmates' hardcover version exactly for the material we covered, and my book was significantly cheaper. Only two complaints: the pages are pretty thin, so you have to be careful when handling individual pages (the book itself is relatively sturdy, for general student wear-and-tear) and the book wasn't shipped very carefully, so a number of the pages were folded over when the book arrived.

Download the Appendix C referenced Academic Versions of PumpBase, HYDROFLO and H-CALC

from [www.tahoessoft.com](http://www.tahoessoft.com)

This book is great. So helpful when trying to get through fluids.

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