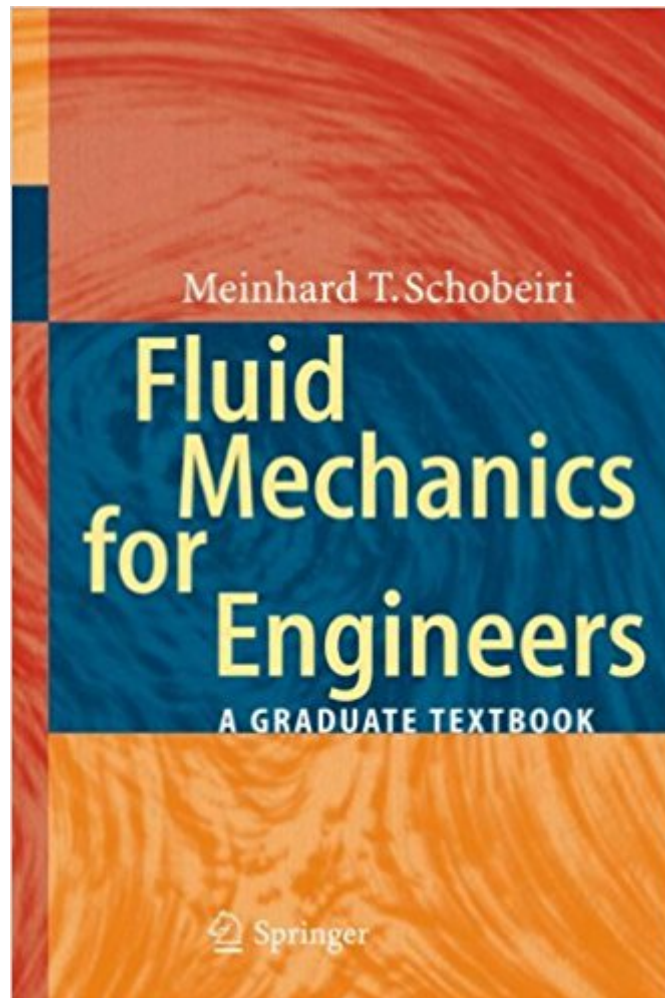




Ebook Directory
the best source of ebook

The book was found

Fluid Mechanics For Engineers: A Graduate Textbook



Synopsis

The contents of this book covers the material required in the Fluid Mechanics Graduate Core Course (MEEN-621) and in Advanced Fluid Mechanics, a Ph. D-level elective course (MEEN-622), both of which I have been teaching at Texas A&M University for the past two decades. While there are numerous undergraduate fluid mechanics texts on the market for engineering students and instructors to choose from, there are only limited texts that comprehensively address the particular needs of graduate engineering fluid mechanics courses. To complement the lecture materials, the instructors more often recommend several texts, each of which treats special topics of fluid mechanics. This circumstance and the need to have a textbook that covers the materials needed in the above courses gave the impetus to provide the graduate engineering community with a coherent textbook that comprehensively addresses their needs for an advanced fluid mechanics text. Although this text book is primarily aimed at mechanical engineering students, it is equally suitable for aerospace engineering, civil engineering, other engineering disciplines, and especially those practicing professionals who perform CFD-simulation on a routine basis and would like to know more about the underlying physics of the commercial codes they use. Furthermore, it is suitable for self study, provided that the reader has a sufficient knowledge of calculus and differential equations. In the past, because of the lack of advanced computational capability, the subject of fluid mechanics was artificially subdivided into inviscid, viscous (laminar, turbulent), incompressible, compressible, subsonic, supersonic and hypersonic flows.

Book Information

Hardcover: 504 pages

Publisher: Springer; 2010 edition (October 8, 2010)

Language: English

ISBN-10: 3642115934

ISBN-13: 978-3642115936

Product Dimensions: 6.4 x 1.2 x 9.4 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 2 customer reviews

Best Sellers Rank: #614,123 in Books (See Top 100 in Books) #174 in Books > Engineering & Transportation > Engineering > Chemical > Fluid Dynamics #200 in Books > Textbooks >

Computer Science > Artificial Intelligence #472 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Intelligence & Semantics

Customer Reviews

From the reviews: "This graduate textbook aims at providing a coherent spread of the material required to gain knowledge of fluid mechanics. The derivation and explanations will definitely be helpful to the students and researchers. The author's decision to include the problems and projects at the end of each chapter will definitely be useful to the readers. The reviewer finds that the book is a useful addition to the existing graduate texts on fluid mechanics." (S. C. Rajvanshi, Zentralblatt MATH, Vol. 1203, 2011)

Touched on the inviscid complex potential flow very appropriately given the entire book is somewhat full of jargon. If you're looking for a text that is strictly Cartesian and cylindrical this isn't it.

Good Fluid Mechanics Graduate Textbook, I would recommend the second edition. It really useful in understanding the tensor part of fluid mechanics

[Download to continue reading...](#)

Fluid Mechanics for Engineers: A Graduate Textbook Fluid Mechanics for Chemical Engineers (McGraw-Hill Chemical Engineering) Fluid Mechanics for Chemical Engineers with Microfluidics and CFD (2nd Edition) Fluid Mechanics for Chemical Engineers Practical Fluid Mechanics for Civil Engineers Fluid Mechanics for Chemical Engineers (UK Higher Education Engineering Chemical Engineering) Biofluid Mechanics, Second Edition: An Introduction to Fluid Mechanics, Macrocirculation, and Microcirculation (Biomedical Engineering) Computational Fluid Mechanics and Heat Transfer, Third Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Computational Fluid Mechanics and Heat Transfer, Second Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Fluid, Electrolyte, and Acid-Base Disorders in Small Animal Practice, 4e (Fluid Therapy In Small Animal Practice) Graduate Admissions Essays, Fourth Edition: Write Your Way into the Graduate School of Your Choice Graduate Admissions Essays: Write Your Way into the Graduate School of Your Choice Free Money for Graduate School: A Guide to More Than 1,000 Grants and Scholarships for Graduate Study How to Prepare for the GRE: Graduate Record Examination with CDROM (Barron's How to Prepare for the Gre Graduate Record Examination) Greenes' Guides to Educational Planning: Making It into A Top Graduate School: 10 Steps to Successful Graduate School Admission Insider's Guide to Graduate Programs in Clinical and Counseling Psychology: 2016/2017 Edition (Insider's Guide to Graduate Programs in Clinical & Counseling Psychology) Fox and

McDonald's Introduction to Fluid Mechanics Fluid Mechanics (Mechanical Engineering) Fluid
Mechanics Fundamentals and Applications (Mechanical Engineering) Munson, Young and Okiishi's
Fundamentals of Fluid Mechanics, 8th Edition

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)