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A Brief Introduction to Fluid Mechanics (Mechanical Engineering) Donald F. Young. 2.5 out of 5 stars 5.

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Adopted from Young, DF, et al, A Brief Introduction to Fluid Mechanics, 2 nd ed., Wiley, New York (2001). The velocity of a particle is the time rate of change of the position vector for that particle.

~~Microfluidics Part 2—Basic Fluid Mechanics~~

solution manual, A Brief Introduction To Fluid Mechanics, 5th Edition by Donald F. Young, Bruce R. Munson, Theodore H. Okiishi and Wade W. Huebsch The Instructor Solutions manual is available in...

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A Brief Introduction to Fluid Mechanics, 5th Edition, John Wiley & Sons, Inc., New York, NY 2007.

Lecture Materials: Recorded Lectures will be posted on Angel . Course Objectives: (1) Obtain a solid

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understanding of the fundamentals of Fluid Mechanics (2) Obtain the availability to know which fluid mechanic equations should be used to solve

### ~~Course Syllabus: CE 360 – Fluid Mechanics~~

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completed. A water flowrate of  $Q = 0.5 \text{ m}^3/\text{s}$  is pumped from the river, A, to the large reservoir, B, where the water surface is 100 m above the river surface, as shown in Figure 2. The pipe

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and lift. Extra problems in every chapter including open-ended problems, problems based on the accompanying videos, laboratory problems, and computer problems emphasize the practical application of principles. More than 100 worked examples provide detailed solutions to a variety of problems.

Now readers can quickly learn the basic concepts and principles of modern fluid mechanics with this concise book. It clearly presents basic analysis techniques while also addressing practical concerns and applications, such as pipe flow, open-channel flow, flow measurement, and drag and lift. The fourth edition also integrates detailed diagrams, examples and problems throughout the pages in order to emphasize the practical application of the principles.

"A Brief Introduction to Fluid Mechanics, Sixth Edition, is an abridged version of a more comprehensive treatment found in Fundamentals of Fluid Mechanics by Munson, Young, and Okiishi. Although this latter work continues to be received successfully by students and colleagues, it is a large volume containing much more material than can be covered in a typical one-semester undergraduate fluid mechanics course. A consideration of the numerous fluid mechanics texts that have been written during the past several decades reveals that there is a definite trend toward larger and larger books. This trend is understandable because the knowledge base in fluid mechanics has increased, along with the desire to include a broader scope of topics in an undergraduate course. Unfortunately, one of the dangers in this trend is that these large books can become intimidating to students who may have difficulty, in a beginning course, focusing on basic principles without getting lost in peripheral material. It is with this background in mind that the authors felt that a shorter but comprehensive text, covering the basic concepts and principles of fluid mechanics in a modern style, was needed. In this abridged version, there is still more than ample material for a one-semester undergraduate fluid mechanics course. We have made every effort to retain the principal features of the original book while presenting the essential material in a more concise and focused manner that will be helpful to the beginning student. This sixth edition comes with a new look-a standardized format intended to increase accessibility. Concerning the content, the authors strove to continue the distinguished tradition of this text. We have sought to augment it, drawing on our many years of teaching experience. Based on our experience and feedback from colleagues and students, we have made updates to this edition"--

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This concise, yet comprehensive book covers the basic concepts and principles of modern fluid mechanics. It examines the fundamental aspects of fluid motion including important fluid properties, regimes of flow, pressure variations in fluids at rest and in motion, methods of flow description and analysis.

This book is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of students better than the dense, encyclopedic manner of traditional texts. This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems. The text lucidly presents basic analysis techniques and addresses practical concerns and applications, such as pipe flow, open-channel flow, flow measurement, and drag and lift. It offers a strong visual approach with photos,

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