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book, MECHANICS OF FLUIDS, SI. In many cases, the solutions are not as detailed as the examples in the book; they are intended to provide the primary steps in each solution so you, the student, are able to quickly review how a problem is solved. The discussion of a subtle point,

A STUDENT SOLUTIONS MANUAL TO ACCOMPANY MECHANICS of FLUIDS,

1.1 Properties of Fluids, Continuum Hypothesis Fluid mechanics is concerned with the behavior of materials which deform without limit under the influence of shearing forces. Even a very small shearing force will deform a fluid body, but the velocity of the deformation will be correspondingly small.

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MECHANICS OF FLUIDS presents fluid mechanics in a manner that helps students gain both an understanding of, and an ability to analyze the important phenomena encountered by practicing engineers. The authors succeed in this through the use of several pedagogical tools that help students visualize the many difficult-to-understand phenomena of fluid mechanics.

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Texts in fluids mechanics have evolved over many years to do this and this text does a great job of this. Examples and their frequency/breadth of coverage is appropriate. The problem-solving methodology in the examples is done extremely well.

Mechanics of Fluids, SI Edition: Merle C. Potter, David C

Y. NAKAYAMA - Introduction to Fluid Mechanics

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Engineering Fluid Mechanics 4 Contents Contents Notation7 1 Fluid Statics 14 1.1 Fluid Properties 14 1.2 Pascal's Law 21 1.3 Fluid-Static Law 21 1.4 Pressure Measurement 24 1.5 Centre of pressure & the Metacentre 29 1.6 Resultant Force and Centre of Pressure on a Curved Surface in a Static Fluid 34 1.7 Buoyancy37

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Russell C. Hibbeler: Fluid Mechanics in SI Units (PDF)

This article summarizes equations in the theory of fluid mechanics. Definitions. Flux F through a surface, dS is the differential vector area element, n is the unit normal to the surface. Left: No flux passes in the surface, the maximum amount flows ... SI units Dimension

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