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Fluid mechanics helps us understand the behavior of fluid under various forces and at different atmospheric conditions, and to select the proper fluid for various applications. This field is studied in detail within Civil Engineering and also to great extent in Mechanical Engineering and Chemical Engineering.

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Fluid Mechanics: Its use in Life Fluid mechanics, the branch of science that deals with the study of fluids (liquids and gases) in a state of rest or motion is an important subject of Civil, Mechanical and Chemical Engineering. Its various branches are fluid statics, fluid kinematics and fluid dynamics. A substance that flows is called as fluid.

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Fluid Mechanics With Engineering Applications 10th Edition ...

In almost whole of the world, "Fluid Mechanics with Engineering Applications by Finnmere and Franzini" is used as a textbook, the book is written in very simple English with practical applications along with thousands of practical field oriented numerical to test the knowledge and judgment of the fluid engineer.

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 the 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. The solutions to these problems will be at a password protected web site.

Provides the definition, equations and derivations that characterize the foundation of fluid mechanics utilizing minimum mathematics required for clarity yet retaining academic integrity. The text focuses on pipe flow, flow in open channels, flow measurement methods, forces on immersed objects, and unsteady flow. It includes over 50 fully solved problems to illustrate each concepts. Three chapters of the book are reprinted from Fundamental Fluid Mechanics for the Practical Engineer by James W. Murdock.

The ninth edition of the volume previously known as Daugherty, Franzini and Finnmere. This edition covers fluid system/control volume relationship analysis for continuum, energy and momentum study and looks at many cases drawn from the fields of civil, environmental and mechanical engineering.

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The book aims at providing to master and PhD students the basic knowledge in fluid mechanics for chemical engineers. Applications to mixing and reaction and to mechanical separation processes are addressed. The first part of the book presents the principles of fluid mechanics used by chemical engineers, with a focus on global theorems for describing the behavior of hydraulic systems. The second part deals with turbulence and its application for stirring, mixing and chemical reaction. The third part addresses mechanical separation processes by considering the dynamics of particles in a flow and the processes of filtration, fluidization and centrifugation. The mechanics of granular media is finally discussed.