

# Fluid Mechanics Giles

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Schaum's Outline of Fluid Mechanics and Hydraulics, 4th Edition - Cheng Liu 2013-11-08

Study faster, learn better, and get top grades! Here is the ideal review for your fluid mechanics and hydraulics course More than 40 million students have trusted Schaum's Outlines for their expert knowledge and helpful solved problems. Written by a renowned expert in this field, Schaum's Outline of Fluid Mechanics and Hydraulics covers what you need to know for your course and, more important, your exams. Step-by-step, the author walks you through coming up with solutions to exercises in this topic. Features: 622 fully solved problems Links to online instruction videos Practical examples of proofs of theorems and derivations of formulas Chapters on fluid statics and the flow of compressible fluids Detailed explanations of free-body analysis, vector diagrams, the principles of work and energy and impulse-momentum, and Newton's laws of motion Helpful material for the following courses: Introduction to Fluid Dynamics; Introduction to Hydraulics; Fluid Mechanics; Statics and Mechanics of Materials

**Radial Flow Turbocompressors** - Michael Casey 2021-06-10

An introduction to the theory and engineering practice that underpins the component design and analysis of radial flow turbocompressors. Drawing upon an extensive theoretical background and years of practical experience, the authors provide descriptions of applications, concepts,

component design, analysis tools, performance maps, flow stability, and structural integrity, with illustrative examples. Features wide coverage of all types of radial compressor over many applications unified by the consistent use of dimensional analysis. Discusses the methods needed to analyse the performance, flow, and mechanical integrity that underpin the design of efficient centrifugal compressors with good flow range and stability. Includes explanation of the design of all radial compressor components, including inlet guide vanes, impellers, diffusers, volutes, return channels, de-swirl vanes and side-streams. Suitable as a reference for advanced students of turbomachinery, and a perfect tool for practising mechanical and aerospace engineers already within the field and those just entering it.

**Schaums Outline of Strength of Materials Seventh Edition** - Merle Potter 2019-10-22

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic

format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. Schaum's Outline of Strength of Materials, Seventh Edition is packed with twenty-two mini practice exams, and hundreds of examples, solved problems, and practice exercises to test your skills. This updated guide approaches the subject in a more concise, ordered manner than most standard texts, which are often filled with extraneous material. Schaum's Outline of Strength of Materials, Seventh Edition features:

- 455 fully-solved problems
- 68 examples
- 22 mini practice exams
- 2 final exams
- 22 problem-solving videos
- Extra practice on topics such as determinate force systems, torsion, cantilever beams, and more
- Clear, concise explanations of all strength of materials concepts
- Content supplements the major leading textbooks in strength of materials
- Content that is appropriate Strength of Materials, Mechanics of Materials, Introductory Structural Analysis, and Mechanics and Strength of Materials courses

PLUS: Access to the revised Schaums.com website and new app, containing 22 problem-solving videos, and more. Schaum's reinforces the main concepts required in your course and offers hundreds of practice exercises to help you succeed. Use Schaum's to shorten your study time—and get your best test scores! Schaum's Outlines - Problem solved.

[Mechanics of Fluids](#) - Merle C. Potter 2011-01-05

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. Explanations are based on basic physical concepts as well as mathematics which are accessible to undergraduate engineering students. This fourth edition includes a Multimedia Fluid Mechanics DVD-ROM which harnesses the interactivity of multimedia to improve the teaching and learning of fluid mechanics by illustrating fundamental phenomena and conveying fascinating fluid flows. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

## **SCHAUM'S OUTLINE OF THEORY AND PROBLEMS OF FLUID MECHANICS AND HYDRAULICS** - R.V. Giles 1977

**Fluid Mechanics for Civil and Environmental Engineers** - Ahlam I. Shalaby 2018-02-21

An ideal textbook for civil and environmental, mechanical, and chemical engineers taking the required Introduction to Fluid Mechanics course, Fluid Mechanics for Civil and Environmental Engineers offers clear guidance and builds a firm real-world foundation using practical examples and problem sets. Each chapter begins with a statement of objectives, and includes practical examples to relate the theory to real-world engineering design challenges. The author places special emphasis on topics that are included in the Fundamentals of Engineering exam, and make the book more accessible by highlighting keywords and important concepts, including Mathcad algorithms, and providing chapter summaries of important concepts and equations.

*Schaum's Outline of Theory and Problems of Fluid Mechanics and Hydraulics* - Randal V. Giles 1995

If you want top grades and excellent understanding of fluid mechanics and hydraulics, this powerful study tool is the best tutor you can have! It takes you step-by-step through the subject and gives you accompanying related problems with fully worked solutions. You also get hundreds of additional problems to solve on your own, working at your own speed. This superb Outline clearly presents every aspect of fluid mechanics and hydraulics. Famous for their clarity, wealth of illustrations and examples, and lack of dreary minutiae, Schaum's Outlines have sold more than 30 million copies worldwide. Compatible with any textbook, this Outline is also perfect for self-study. For better grades in courses covering fluid mechanics and hydraulics—you can't do better than this Schaum's Outline!

**Hydraulicians in the USA 1800-2000** - Willi H. Hager 2015-11-05

This book provides 1-page short biographies of scientists and engineers having worked in the areas of hydraulic engineering and fluid dynamics in the USA. On each page, a notable individual is highlighted by: (1)

Exact dates and locations of birth and death; (2) Educational and professional details, including also awards received; (3) Rea  
**2,500 Solved Problems In Fluid Mechanics and Hydraulics** - Jack Evett 1989-01-01

This powerful problem-solver gives you 2,500 problems in fluid mechanics and hydraulics, fully solved step-by-step! From Schaum's, the originator of the solved-problem guide, and students' favorite with over 30 million study guides sold—this timesaver helps you master every type of fluid mechanics and hydraulics problem that you will face in your homework and on your tests, from properties of fluids to drag and lift. Work the problems yourself, then check the answers, or go directly to the answers you need using the complete index. Compatible with any classroom text, Schaum's 2500 Solved Problems in Fluid Mechanics and Hydraulics is so complete it's the perfect tool for graduate or professional exam review!

*Numerical Solutions of the Euler Equations for Steady Flow Problems* - Albrecht Eberle 2013-04-17

The last decade has seen a dramatic increase of our abilities to solve numerically the governing equations of fluid mechanics. In design aerodynamics the classical potential-flow methods have been complemented by higher modelling-level methods. Euler solvers, and for special purposes, already Navier-Stokes solvers are in use. The authors of this book have been working on the solution of the Euler equations for quite some time. While the first two of us have worked mainly on algorithmic problems, the third has been concerned off and on with modelling and application problems of Euler methods. When we started to write this book we decided to put our own work at the center of it. This was done because we thought, and we leave this to the reader to decide, that our work has attained over the years enough substance in order to justify a book. The problem which we soon faced, was that the field still is moving at a fast pace, for instance because hyper sonic computation problems became more and more important.

**Riemann Solvers and Numerical Methods for Fluid Dynamics** - Eleuterio F. Toro 2013-04-17

High resolution upwind and centered methods are today a mature generation of computational techniques applicable to a wide range of engineering and scientific disciplines, Computational Fluid Dynamics (CFD) being the most prominent up to now. This textbook gives a comprehensive, coherent and practical presentation of this class of techniques. The book is designed to provide readers with an understanding of the basic concepts, some of the underlying theory, the ability to critically use the current research papers on the subject, and, above all, with the required information for the practical implementation of the methods. Applications include: compressible, steady, unsteady, reactive, viscous, non-viscous and free surface flows.

FLUID MECHANICS - RAJU, K. SRINIVASA 2020-07-01

Fluid Mechanics has transformed from fundamental subject to application-oriented subject. Over the years, numerous experts introduced number of books on the theme. Majority of them are rather theoretical with numerical problems and derivations. However, due to increase in computational facilities and availability of MATLAB and equivalent software tools, the subject is also transforming into computational perspective. We firmly believe that this new dimension will greatly benefit present generation students. The present book is an effort to tackle the subject in MATLAB environment and consists of 16 chapters. The book can support undergraduate students in fluid mechanics, and can also be referred to as a text/reference book. KEY FEATURES • Explanation of Fluid Mechanics in MATLAB in structured and lucid manner • 161 Example Problems supported by corresponding MATLAB codes compatible with 2016a version • 162 Exercise Problems for reinforced learning • 12 MP4 Videos for the demonstration of MATLAB codes for effective understanding while enhancing thinking ability of readers • A Question Bank containing 261 Representative Questions and 120 Numerical Problems TARGET AUDIENCE Students of B.E/B.Tech and AMIE (Civil, Mechanical and Chemical Engineering) & Useful to students preparing for GATE and UPSC examinations.

**2500 Solved Problems in Fluid Mechanics and Hydraulics** - Jack B. Evett 1994

## **The Seventh Asian Congress of Fluid Mechanics - 1997**

### **Meteorological Measurements and Instrumentation** - Giles Harrison 2015-01-20

This book describes the fundamental scientific principles underlying high quality instrumentation used for environmental measurements. It discusses a wide range of in situ sensors employed in practical environmental monitoring and, in particular, those used in surface based measurement systems. It also considers the use of weather balloons to provide a wealth of upper atmosphere data. To illustrate the technologies in use it includes many examples of real atmospheric measurements in typical and unusual circumstances, with a discussion of the electronic signal conditioning, data acquisition considerations and data processing principles necessary for reliable measurements. This also allows the long history of atmospheric measurements to be placed in the context of the requirements of modern climate science, by building the physical science appreciation of the instrumental record and looking forward to new and emerging sensor and recording technologies.

### *Schaum's Outline of Fluid Mechanics and Hydraulics, 4th Edition* - Giles Randal 2013-12-09

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. This all-in-one-package includes more than 600 fully solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 20 detailed videos featuring instructors who explain the most commonly tested problems--it's just like having your own virtual tutor! You'll find everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you 622 fully solved problems Extra practice on topics such as buoyancy and

flotation, complex pipeline systems, fluid machinery, flow in open channels, and more Support for all the major textbooks for fluid mechanics and hydraulics courses Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Schaum's Outlines--Problem Solved.

### **Fundamental Directions in Mathematical Fluid Mechanics** - Giovanni P. Galdi 2012-12-06

This volume consists of six articles, each treating an important topic in the theory of the Navier-Stokes equations, at the research level. Some of the articles are mainly expository, putting together, in a unified setting, the results of recent research papers and conference lectures. Several other articles are devoted mainly to new results, but present them within a wider context and with a fuller exposition than is usual for journals. The plan to publish these articles as a book began with the lecture notes for the short courses of G.P. Galdi and R. Rannacher, given at the beginning of the International Workshop on Theoretical and Numerical Fluid Dynamics, held in Vancouver, Canada, July 27 to August 2, 1996. A renewed energy for this project came with the founding of the Journal of Mathematical Fluid Mechanics, by G.P. Galdi, J. Heywood, and R. Rannacher, in 1998. At that time it was decided that this volume should be published in association with the journal, and expanded to include articles by J. Heywood and W. Nagata, J. Heywood and M. Padula, and P. Gervasio, A. Quarteroni and F. Saleri. The original lecture notes were also revised and updated.

### *Fundamentals of Fluid Mechanics* - Jack B. Evett 1987

### *ICGG 2020 - Proceedings of the 19th International Conference on Geometry and Graphics* - Liang-Yee Cheng 2020-12-01

This book covers various aspects of Geometry and Graphics, from recent achievements on theoretical researches to a wide range of innovative applications, as well as new teaching methodologies and experiences, and reinterpretations and findings about the masterpieces of the past. It is from the 19th International Conference on Geometry and Graphics,

which was held in São Paulo, Brazil. The conference started in 1978 and is promoted by the International Society for Geometry and Graphics, which aims to foster international collaboration and stimulate the scientific research and teaching methodology in the fields of Geometry and Graphics. Organized five topics, which are Theoretical Graphics and Geometry; Applied Geometry and Graphics; Engineering Computer Graphics; Graphics Education and Geometry; Graphics in History, the book is intended for the professionals, academics and researchers in architecture, engineering, industrial design, mathematics and arts involved in the multidisciplinary field.

**100 Volumes of 'Notes on Numerical Fluid Mechanics'** - Ernst Heinrich Hirschel 2009-05-19

In a book that will be required reading for engineers, physicists, and computer scientists, the editors have collated a number of articles on fluid mechanics, written by some of the world's leading researchers and practitioners in this important subject area.

**Fluid Mechanics And Machinery** - Durgaiiah D. Rama 2007

This Book Presents A Thorough And Comprehensive Treatment Of Both The Basic As Well As The More Advanced Concepts In Fluid Mechanics. The Entire Range Of Topics Comprising Fluid Mechanics Has Been Systematically Organised And The Various Concepts Are Clearly Explained With The Help Of Several Solved Examples. Apart From The Fundamental Concepts, The Book Also Explains Fluid Dynamics, Flow Measurement, Turbulent And Open Channel Flows And Dimensional And Model Analysis. Boundary Layer Flows And Compressible Fluid Flows Have Been Suitably Highlighted. Turbines, Pumps And Other Hydraulic Systems Including Circuits, Valves, Motors And Ram Have Also Been Explained. The Book Provides 225 Fully Worked Out Examples And More Than 1600 Questions Including Numerical Problems And Objective Questions. The Book Would Serve As An Exhaustive Text For Both Undergraduate And Post- Graduate Students Of Mechanical, Civil And Chemical Engineering. Amie And Competitive Examination Candidates As Well As Practising Engineers Would Also Find This Book Very Useful.

**Error Estimation and Adaptive Discretization Methods in**

**Computational Fluid Dynamics** - Timothy J. Barth 2013-04-17

As computational fluid dynamics (CFD) is applied to ever more demanding fluid flow problems, the ability to compute numerical fluid flow solutions to a user specified tolerance as well as the ability to quantify the accuracy of an existing numerical solution are seen as essential ingredients in robust numerical simulation. Although the task of accurate error estimation for the nonlinear equations of CFD seems a daunting problem, considerable effort has centered on this challenge in recent years with notable progress being made by the use of advanced error estimation techniques and adaptive discretization methods. To address this important topic, a special course was jointly organized by the NATO Research and Technology Office (RTO), the von Karman Institute for Fluid Dynamics, and the NASA Ames Research Center. The NATO RTO sponsored course entitled "Error Estimation and Solution Adaptive Discretization in CFD" was held September 10-14, 2002 at the NASA Ames Research Center and October 15-19, 2002 at the von Karman Institute in Belgium. During the special course, a series of comprehensive lectures by leading experts discussed recent advances and technical progress in the area of numerical error estimation and adaptive discretization methods with specific emphasis on computational fluid dynamics. The lecture notes provided in this volume are derived from the special course material. The volume consists of 6 articles prepared by the special course lecturers.

**Optimization and Computational Fluid Dynamics** - Dominique Thévenin 2008-01-08

The numerical optimization of practical applications has been an issue of major importance for the last 10 years. It allows us to explore reliable non-trivial configurations, differing widely from all known solutions. The purpose of this book is to introduce the state-of-the-art concerning this issue and many complementary applications are presented.

**Schaum's Outline of Theory and Problems of Fluid Mechanics and Hydraulics** - Ranald V. Giles 1983

**New Results in Numerical and Experimental Fluid Mechanics X -**

Andreas Dillmann 2016-03-28

This book presents contributions to the 19th biannual symposium of the German Aerospace Aerodynamics Association (STAB) and the German Society for Aeronautics and Astronautics (DGLR). The individual chapters reflect ongoing research conducted by the STAB members in the field of numerical and experimental fluid mechanics and aerodynamics, mainly for (but not limited to) aerospace applications, and cover both nationally and EC-funded projects. Special emphasis is given to collaborative research projects conducted by German scientists and engineers from universities, research-establishments and industries. By addressing a number of cutting-edge applications, together with the relevant physical and mathematics fundamentals, the book provides readers with a comprehensive overview of the current research work in the field. Though the book's primary emphasis is on the aerospace context, it also addresses further important applications, e.g. in ground transportation and energy.

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mechanics and hydraulics courses Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Schaum's Outlines--Problem Solved.

**A First Course in Fluid Mechanics for Civil Engineers** - Donald D. Gray 1999

**Schaum's Outline of Fluid Mechanics and Hydraulics, 3ed** - Ranald V. Giles 2009-06-08

Confusing Textbooks? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up-to-date developments in your course field In-depth review of practices and applications Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

Schaum's Outline of Theory and Problems of Fluid Mechanics and Hydraulics - Ranald V. Giles 1962

If you want top grades and excellent understanding of fluid mechanics and hydraulics, this powerful study tool is the best tutor you can have! It takes you step-by-step through the subject and gives you accompanying related problems with fully worked solutions. You also get hundreds of additional problems to solve on your own, working at your own speed. This superb Outline clearly presents every aspect of fluid mechanics and hydraulics. Famous for their clarity, wealth of illustrations and examples, and lack of dreary minutiae, Schaum's Outlines have sold more than 30 million copies worldwide. Compatible with any textbook, this Outline is also perfect for self-study. For better grades in courses covering fluid

mechanics and hydraulics – you can't do better than this Schaum's Outline!

*Low-Speed Aerodynamics* - Joseph Katz 2001-02-05

A treatment of low-speed aerodynamics, covering both theory and computational techniques, first published in 2001.

Barriers and Challenges in Computational Fluid Dynamics - V.

Venkatakrisnan 2012-12-06

In this volume, designed for engineers and scientists working in the area of Computational Fluid Dynamics (CFD), experts offer assessments of the capabilities of CFD, highlight some fundamental issues and barriers, and propose novel approaches to overcome these problems. They also offer new avenues for research in traditional and non-traditional disciplines. The scope of the papers ranges from the scholarly to the practical. This book is distinguished from earlier surveys by its emphasis on the problems facing CFD and by its focus on non-traditional applications of CFD techniques. There have been several significant developments in CFD since the last workshop held in 1990 and this book brings together the key developments in a single unified volume.

Computational Statistical Mechanics - W.G. Hoover 2012-12-02

Computational Statistical Mechanics describes the use of fast computers to simulate the equilibrium and nonequilibrium properties of gases, liquids, and solids at, and away from equilibrium. The underlying theory is developed from basic principles and illustrated by applying it to the simplest possible examples. Thermodynamics, based on the ideal gas thermometer, is related to Gibb's statistical mechanics through the use of Nosé-Hoover heat reservoirs. These reservoirs use integral feedback to control temperature. The same approach is carried through to the simulation and analysis of nonequilibrium mass, momentum, and energy flows. Such a unified approach makes possible consistent mechanical definitions of temperature, stress, and heat flux which lead to a microscopic demonstration of the Second Law of Thermodynamics directly from mechanics. The intimate connection linking Lyapunov-unstable microscopic motions to macroscopic dissipative flows through multifractal phase-space structures is illustrated with many examples

from the recent literature. The book is well-suited for undergraduate courses in advanced thermodynamics, statistical mechanics and transport theory, and graduate courses in physics and chemistry.

ECMO in the Adult Patient - Alain Vuylsteke 2017-02-09

Part of the Core Critical Care series, this book is an easy-to-read guide for the aspiring ECMO clinician. Doctors, nurses, physiotherapists, dieticians, pharmacists and all other key members of the team will learn the basics required to better understand the technology and care of the patient.

**Computational Fluid Dynamics: Principles and Applications** - Jiri Blazek 2005-12-20

Computational Fluid Dynamics (CFD) is an important design tool in engineering and also a substantial research tool in various physical sciences as well as in biology. The objective of this book is to provide university students with a solid foundation for understanding the numerical methods employed in today's CFD and to familiarise them with modern CFD codes by hands-on experience. It is also intended for engineers and scientists starting to work in the field of CFD or for those who apply CFD codes. Due to the detailed index, the text can serve as a reference handbook too. Each chapter includes an extensive bibliography, which provides an excellent basis for further studies.

**Nonlinear Conservation Laws and Applications** - Alberto Bressan 2011-04-19

This volume contains the proceedings of the Summer Program on Nonlinear Conservation Laws and Applications held at the IMA on July 13--31, 2009. Hyperbolic conservation laws is a classical subject, which has experienced vigorous growth in recent years. The present collection provides a timely survey of the state of the art in this exciting field, and a comprehensive outlook on open problems. Contributions of more theoretical nature cover the following topics: global existence and uniqueness theory of one-dimensional systems, multidimensional conservation laws in several space variables and approximations of their solutions, mathematical analysis of fluid motion, stability and dynamics of viscous shock waves, singular limits for viscous systems, basic

principles in the modeling of turbulent mixing, transonic flows past an obstacle and a fluid dynamic approach for isometric embedding in geometry, models of nonlinear elasticity, the Monge problem, and transport equations with rough coefficients. In addition, there are a number of papers devoted to applications. These include: models of blood flow, self-gravitating compressible fluids, granular flow, charge transport in fluids, and the modeling and control of traffic flow on networks.

**Vortex Dynamics** - P. G. Saffman 1995-02-24

Vortex dynamics is a natural paradigm for the field of chaotic motion and modern dynamical system theory. However, this volume focuses on those aspects of fluid motion that are primarily controlled by the vorticity and are such that the effects of the other fluid properties are secondary.

Fluid Mechanics - Robert A. Granger 2012-09-06

Structured introduction covers everything the engineer needs to know: nature of fluids, hydrostatics, differential and integral relations, dimensional analysis, viscous flows, more. Solutions to selected problems. 760 illustrations. 1985 edition.

**Schaum's Outline of Engineering Mechanics Dynamics, Seventh Edition** - Merle C. Potter 2021-02-01

An engineering major's must have: The most comprehensive review of the required dynamics course—now updated to meet the latest curriculum and with access to Schaum's improved app and website! Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems,

and practice exercises to test your skills. This Schaum's Outline gives you: 729 fully solved problems to reinforce knowledge 1 final practice exam Hundreds of examples with explanations of dynamics concepts Extra practice on topics such as rectilinear motion, curvilinear motion, rectangular components, tangential and normal components, and radial and transverse components Support for all the major textbooks for dynamics courses Access to revised Schaums.com website with access to 25 problem-solving videos and more. Schaum's reinforces the main concepts required in your course and offers hundreds of practice questions to help you succeed. Use Schaum's to shorten your study time - and get your best test scores!

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*Mechanics of Fluids* - Uche Otefe 2008