

# Fluid Mechanics - Video course

- **Fundamental Concepts of Fluid Flow:** Fundamental definitions, Flow characteristics, Classification of fluids, Fluid properties, Foundations of flow analysis.
- **Fluid Statics:** Fluid pressure, Forces on solid surfaces, Buoyant forces.
- **Kinematics of Fluid Flow:** Equations for acceleration, Continuity equation, Irrotational and rotational flow, Potential and stream functions.
- **Dynamics of Fluid Flow:** Finite control volume analysis, Euler and Bernoulli's theorems, Impulse momentum theory, Applications of energy and momentum equations.
- **Laminar and Turbulent Flows:** Types of flow, Reynolds experiment, Laminar flow between parallel plates, Laminar flow in pipes, Turbulent flow in pipes.
- **Pipe Flow Systems:** Darcy-Weisbach equation, Moody diagram, Energy losses in pipelines, Minor losses, Multiple pipe systems.
- **Dimensional Analysis:** Model similitude, Model scales, Theory and applications.
- **Navier- Stokes Equations and Applications:** Introduction to Navier- Stokes equations, Exact solutions for simple cases of flow, Plane Poiseuille flow, Couette flow, Stokes flow and porous media flow.
- **Boundary Layer Theory and Applications:** Concepts of boundary layer, Flow separation, Circulation, Drag and lift on immersed bodies.

#### Texts/ References:

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#### Coordinators:

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# Course 3 Fluid Mechanics Web Course Nptel

**S. Narasimhan**

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### **Course 3 Fluid Mechanics Web Course Nptel:**

Advanced Marine Structures Srinivasan Chandrasekaran,2015-08-18 Due in part to a growing demand for offshore oil and gas exploration the development of marine structures that initially started onshore is now moving into deeper offshore areas Designers are discovering a need to revisit basic concepts as they anticipate the response behavior of marine structures to increased water depths Providing a sim **A First Course in Fluid Mechanics** S. Narasimhan,2007

**Fluid Mechanics: an Introductory Course** Pau Chang L.,1981 *Fluid Mechanics* Pau-Chang Lu,1979 **A Short Course in Fluid Mechanics** Thomas J. R. Hughes,Jerrold E. Marsden,1976 Fluid Mechanics for Engineers Meinhard T. Schobeiri,2010-03-27 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 **Fluid Flow** Rolf H. Sabersky,Allan J. Acosta,Edward G. Hauptmann,1977 **Spiegel van doleancie en reformatie, nae den tegenwoordigen toestant des vaderlandts** ,1672 **Fluid Mechanics for Engineers** Meinhard T Schobeiri,2010-09-08 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.

[A First Course in Fluid Mechanics for Engineers](#), [Block 3](#) Open University Course Team, Open University MST326/Block 3, 2009-06-20. Block 3 contains units 9-11 which look at a class of differential equations typified by the wave equation, the diffusion equation and Laplace's equation which arise frequently in fluid mechanics and in other branches of applied mathematics. Unit 9: Second order partial differential equations shows how a second order partial differential equation can be classified as one of three standard types and how to reduce an equation to its standard form. Some general solutions including d'Alembert's solution to the wave equation are found. Unit 10: Fourier series reviews and develops an important method of approximating a function. The early sections refer to trigonometric Fourier series and it is shown how these series together with separation of variables can be used to represent the solutions of initial boundary value problems involving the diffusion equation and the wave equation. Later sections generalise to the Fourier series that arise from Sturm-Liouville problems: eigenvalue problems with the differential equation put into a certain standard format including Legendre series. Unit 11: Laplace's equation is a particular second order partial differential equation that can be used to model the flow of an irrotational inviscid fluid past a rigid boundary. Solutions to Laplace's equation are found and interpreted in the context of fluid flow problems for example the flow of a fluid past a cylinder and past a sphere. Please note this book refers to the use of other materials therefore you are advised that you may also need to purchase the Audio CD Pack order code MST326 CDAPACK.

**Fluid Mechanics** Naseem Uddin, 2022-12-05. Fluid Mechanics: A Problem Solving Approach provides a clear distinction between integral formulation and the differential formulation of conservation laws. Including a detailed discussion on pipe flow correlations, entrance length correlations and plotting of Moody diagram, the book works through the comprehensive coverage of fluid mechanics with a gradual introduction of theory in a straightforward practical approach. The book includes numerous end of chapter problems to enhance student understanding and different solving approaches. It features coverage of nanofluids and chapters on jets, waves in ocean and rivers, boundary layer separation and Thwaites integral method which are not typically covered in an introductory course. Features: Provides a comprehensive treatment of fluid mechanics from the basic concepts to in-depth application problems. Covers waves and tsunamis. Offers two distinct chapters on jet flows and turbulent flows. Includes numerous end of chapter problems. Includes a Solutions Manual and MAPLE worksheets for instructor use. The book is intended for senior undergraduate mechanical and civil engineering students taking courses in fluid mechanics. The eBook version includes the following enhancements: 3 videos placed

throughout the text to help apply real world examples to concepts of Newtonian vs Non Newtonian fluids vortices and additional information on surface tension Pop up explanations of selected concepts as interactive flashcards in each chapter Quizzes within chapters to help readers refresh their knowledge

Fluid Flow Rolf H. Sabersky,1999 This dynamic book offers a clear insight into the field of fluid mechanics taking an approach toward analyzing fluid flows that develops each subject from the theory of its basic laws to the illustration of actual engineering applications The Fourth Edition features the most up to date applications of essential concepts as well as new coverage of the latest topics in the field today

**An experimental course in basic fluid mechanics** ,1994

Fluid Mechanics Gregory Falkovich,2011-04-14 The multidisciplinary field of fluid mechanics is one of the most actively developing fields of physics mathematics and engineering In this book the fundamental ideas of fluid mechanics are presented from a physics perspective Using examples taken from everyday life from hydraulic jumps in a kitchen sink to Kelvin Helmholtz instabilities in clouds the book provides readers with a better understanding of the world around them It teaches the art of fluid mechanical estimates and shows how the ideas and methods developed to study the mechanics of fluids are used to analyze other systems with many degrees of freedom in statistical physics and field theory Aimed at undergraduate and graduate students the book assumes no prior knowledge of the subject and only a basic understanding of vector calculus and analysis It contains 32 exercises of varying difficulties from simple estimates to elaborate calculations with detailed solutions to help readers understand fluid mechanics

**An Introduction to Fluid Mechanics** Merle C. Potter,Bassem H. Ramadan,2024-10-10 This textbook can be used for the first required course in fluid mechanics It can be used in any curriculum mechanical civil chemical aerospace or a general required course for all engineers The course can be taught using the more conventional elemental approach for pipe flow channel flow and flow between cylinders This textbook adopts a judicious approach minimizing mathematical intricacies to ensure that the book is accessible for all students The text has been designed to allow students to better understand the fundamentals aided by numerous examples and home problems Students often find it quite difficult to understand many concepts encountered in fluid mechanics such as laminar flow the entrance region the separated region and turbulence The book ensures that these concepts are presented correctly and in an easy to understand format To mention a few the turbulent entrance region is only for large Reynolds numbers although not many texts mention this the separated region and the wake are often confused and laminar flow and turbulent flow definitions usually lack clarity This book elucidates derivations and phenomena in a manner that renders them comparably more comprehensible than those presented in other textbooks This book uses a student friendly format to ensure easy understanding

**Fluid Flow - A First Course in Fluid Mechanics** Sabersky RH.,1964

**A Short Course on Fluid Mechanics** Farouk M. Abdel-Aal,2001

**Fluid Mechanics** ,1995

Fluid mechanics Lev Davidovič Landau,Evgenij M. Lifšic,1968

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