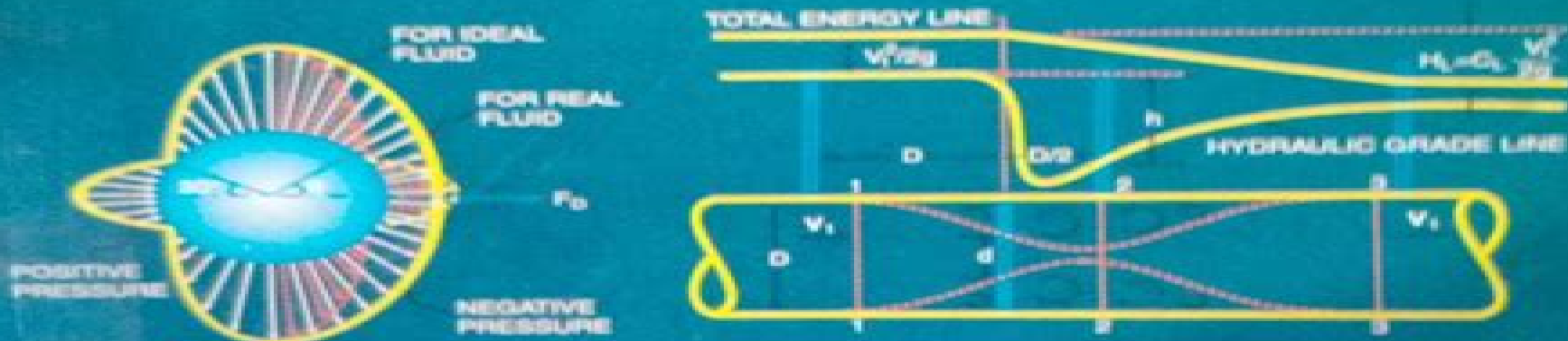


Fluid Mechanics

Including Hydraulic Machines

Dr. A.K. Jain



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Fluid Mechanics (Vol. 1) Shiv Kumar, 2022-07-20 This book provides the fundamental knowledge allowing students in engineering and natural sciences to enter fluid mechanics and its applications in various fields where fluid flows need to be dealt with This textbook is written for the introductory course of fluid mechanics for students at the undergraduate and postgraduate levels Volume 1 of this textbook contains seven chapters to help build the basic understanding of the subject matter It adequately covers the properties of fluids pressure and its measurement hydrostatic forces on surface buoyancy and floatation kinematics of fluid motion dynamics of fluid flow and dimensional and model analysis The concepts are supported by numerous solved examples and multiple choice questions to aid self learning in students The textbook also contains illustrated diagrams for better understanding of the concepts The book is extremely useful for the undergraduate and postgraduate students of engineering and natural sciences *Fluid Mechanics* A.K. Jain, 1995 *Fluid Mechanics (Vol. 2)* Shiv Kumar, 2022-07-21 This book has been written for the introductory course of fluid mechanics for students at the undergraduate and postgraduate levels It provides the fundamental knowledge allowing students in engineering and natural sciences to enter fluid mechanics and its applications in various fields where fluid flows need to be dealt with Volume 2 of this book contains ten chapters to help build the basic understanding of the subject matter It adequately addresses the more complex and advanced issues on fluid mechanics in simplest of manners The book covers laminar flow viscous flow turbulent flow boundary layer theory flow through pipe pipe flow measurement orifices and mouthpieces flow past submerged bodies flow through open channels notches and weirs and compressible flows The concepts are supported by numerous solved examples and multiple choice questions to aid self learning in students The book also contains illustrated diagrams for better understanding of the concepts The book is extremely useful for the undergraduate and postgraduate students of engineering and natural sciences *FLUID MECHANICS* RAJU, K. SRINIVASA, KUMAR, D. NAGESH, 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 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 Mechanics* EduGorilla Prep Experts, 2024-06-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Engineering Fluid Mechanics P. A. Aswatha Narayana, K. N. Seetharamu, 2005 Engineering Fluid Mechanics discusses applications of Bernoulli's equation momentum theorem turbomachines and dimensional analysis discusses mechanics of laminar and turbulent flows boundary layers incompressible inviscid flows compressible flows and computational fluid dynamics Introduction to wave hydrodynamics experimental techniques and analysis of experimental uncertainty

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