

# Textbook Of Hydraulics Fluid Mechanics And Hydraulic Machines Rs Khurmi

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divided in two parts a textbook of fluid mechanics and hydraulic machines is one of the most exhaustive texts on the subject for close to 20 years for the students of mechanical engineering it can easily be used as a reference text for other courses as well important topics ranging from fluid dynamics laminar flow and turbulent flow to hydraulic turbines and centrifugal pumps are well explained in this book a total of 23 chapters combined both units followed by two special chapters of universities questions latest with solutions and gate and upsc examinations questions with

answers solutions after each unit also make it an excellent resource for aspirants of various entrance examinations

the favourable and warm reception which the previous editions and reprints of this popular book has enjoyed all over india and abroad has been a matter of great satisfaction for me

written in an innovative style this book in si system of units is a complete treatise on fluid mechanics and hydraulic machines it presents the subject matter in an explicit lucid and comprehensive manner simple mathematical models have been used to describe the intricate physical concepts

this is an ideal offering for the complete course on fluid mechanics and hydraulic machines written in a simple and lucid style the book covers the basic principles and its application to the solution of engineering problems this book is apt for self study by the students and lays down a strong foundation for problem solving abilities

this textbook attempts to cover all the topics concerning fluid mechanics hydraulics and hydraulic machines keeping in view the requirements of undergraduate engineering students of all branches beginning with fundamentals advanced topics are discussed towards the end of each chapter this book written in si system of units should be a single guiding reference material for most university examinations amie and other competitive examinations while dealing with various aspects emphasis is on showing a physical picture of the situation with the help of diagrams

chapter 1 properties of fluids chapter 2 pressure and its measurement chapter 3 hydrostatic forces on surfaces chapter 4 buoyancy and floatation chapter 5 kinematics of flow and ideal flow chapter 6 dynamics of fluid flow chapter 7 orifices and mouthpieces chapter 8 notches and weirs chapter 9 viscous flow chapter 10 turbulent flow chapter 11 flow through pipes chapter 12 dimensional and model analysis chapter 13 boundary layer flow chapter 14 forces on sub merged bodies chapter 15 compressible flow chapter 16 flow in open channels chapter 17 impact of jets and jet propulsion chapter 18 hydraulic machines turbines chapter 19 centrifugal pumps chapter 20 reciprocating pumps chapter 21 fluid system objective type questions appendix subject index

this comprehensive book is an earnest endeavour to apprise the readers with a thorough understanding of all important basic concepts and methods of fluid mechanics and hydraulic machines the text is organised into sixteen chapters out of which the first twelve chapters are more inclined towards imparting the conceptual aspects of fluids mechanics while the remaining four chapters accentuate more on the details of hydraulic machines the book is supplemented with solutions manual for instructors containing detailed solutions of all chapter end unsolved problems primarily intended as a text for the undergraduate students of civil mechanical chemical and aeronautical engineering this book will be of immense use to the postgraduate students of hydraulics engineering water resources engineering and fluids engineering key features the book describes all concepts in easy to grasp language with diagrammatic representation and practical examples a variety of worked out examples are

included within the text illustrating the wide applications of fluid mechanics every chapter comprises summary that presents the main idea and relevant details of the topics discussed almost all chapters incorporate objective type questions of previous years gate examinations along with their answers and in depth explanations previous years ies conventional questions are provided at the end of most of the chapters a set of theoretical questions and numerous unsolved numerical problems are provided at the chapter end to help the students from practice pointof view every chapter consists of a section suggested reading comprising a list of publications that the students may refer for more detailed information

in the book a large number of problems from the examination paper of london university institution of mechanical engineers london institution of engineers india union public service commission india and various indian universities have been included contents part i properties of fluids pressure measurement hydrostatic forces on surfaces buoyancy and floating fluid masses in relative equilibrium kinematics of fluid flow dynamics of fluid flow flow measurement flow through orifices and mouth pieces flow over notches and weirs fundamentals of flow through pipes fundamentals of flow through open channels flow of compressible fluids part ii advance topics in fluid mechanics and hydraulics dimensional analysis hydraulic similitude laminar flow turbulent flow through pipes boundary layer theory flow around immersed bodies uniform flow in open channels non uniform flow in open channels part iii hydarulics machines impacts of free jets hydraulic turbines governing and performance of hydraulic turbines reciprocating pumps centrifugal pumps miscellaneous hydraulic devices and machines part iv iscellaneous topics fluvial hydraulics elementary hydrodynamics water power engineering laboratory experiments part v appendices appendix a miscellaneous objective type questions appendix b cavitation appendix c geometrical properties of plane areas appendix d secondary flow appendix e use vector notaions appendix f computer programmes reference index

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