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**Fluid Mechanics-Chapter-1-Introduction-to-Fluid-Mechanics** Soil Mechanics and Foundation Engineering written by Dr.K.R. Arora, B.E (Civil), M.E (Hons) Ph.D. (IITD), F.I.E, M.I.G.S, FISDT, MIWRS, Former Professor and Head of Civil Engineering Department, Engineering College, KOTA.

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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.CONTENTENTS : 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 : Hydraulics 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 Notations \* Appendix F : Computer Programes \* Reference \* Index.

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.

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?ABOUT THE BOOK: The basic aim of the seventeenth edition of Surveying, Volume-I, is the same as that of the earlier editions, namely, to present the fundamentals of the subject in a simplified manner and to illustrate the basic concepts in a simple and lucid language so that even a beginner can understand it. A large number of worked examples and figures have been given to illustrate the basic theories. The subject matter has been revised wherever necessary to make some of the basic concepts more clear and understandable. A few new problems and examples have been added. Some of the old figures have been replaced by new ones. Either colored plates of the surveying instruments have been added as an appendix. These plates and figures are useful for making the subject matter more illustrative. ?OUTSTANDING FEATURES: E.D.M., Total Station & G.P.S., are included separately. All the text has been explained in a simple, lucid language. -SI Units used in the entire book -This book will be useful for Degree/Diploma/AMLE, students and equally useful to the field engineers and surveyors -Number of problems have been solved in details -Subject matter is supported by very good diagrams -Either colored plates of the surveying instruments have been added as an appendix. ?RECOMMENDATIONS: A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations ?ABOUT THE AUTHOR: Dr. K.R. ARORA B.E. (Civil), M.E. (Hons), Ph.D (I.I.T. Delhi) Professor and former Head, Department of Civil Engineering, Engineering College, Kota (Rajasthan). ?BOOK DETAILS: ISBN : 978-81-89401-23-8 Pages: 690 + 16 Edition:17th, Year -2019 Size(cms): L-24.2 B-18.2 H-2.8 ?PUBLISHED BY: STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road Daryaganj New Delhi-110002 +91 011 43551185/43551085/43751128/23250212 Retail Office : 1705-A Nai Sarak Delhi-110006 011 23265506 Website: www.standardbookhouse.com A venture of Rajsons Group of Companies

The text begins by reviewing, in a simple and precise manner, the physical principles of three pillars of Refrigeration and Air Conditioning, namely thermodynamics, heat transfer, and fluid mechanics. Following an overview of the history of refrigeration, subsequent chapters provide exhaustive coverage of the principles, applications and design of several types of refrigeration systems and their associated components such as compressors, condensers, evaporators, and expansion devices. Refrigerants too, are studied elaboratively in an exclusive chapter. The second part of the book, beginning with the historical background of air conditioning in Chapter 15, discusses the subject of psychrometrics being at the heart of understanding the design and implementation of air conditioning processes and systems, which are subsequently dealt with in Chapters 16 to 23. It also explains the design practices followed for cooling and heating load calculations. Each chapter contains several worked-out examples that clarify the material discussed and illustrate the use of basic principles in engineering applications. Each chapter also ends with a set of few review questions to serve as revision of the material learned.

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.