



Fluid Mechanics and Machinery , 2/e

Chanamala Ratnam & Arun Vikram Kothapalli

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About the Book

Fluid mechanics and machinery has an important role in the disciplines of Mechanical and Civil Engineering, in particular, its role in Civil Engineering activities like construction of reservoirs, domestic pipeline network, etc. Its involvement in Electrical Engineering aspects like power generation and electrical equipment design, etc. also cannot be overlooked.

The complete text has been thoroughly revised and modified. Additional information wherever necessary has been provided for upgraded understanding of the subject. Various new problems have also been included. A new topic "Buoyancy and Floatation" has been added as an extension of chapter 4.

With the help of a large number of pictorial explanations this book is designed to raise the standard of the reader, step by step in understanding the concepts of fluid mechanics and its applications in hydraulic machinery. The contents are developed in transition from basics of simple chapters to complexity of the remaining chapters including the fundamental formulae for deriving equations, keeping the connectivity between chapters and their applications.

Important formulae including their units, constant values to be remembered, are being given in a tabular format at the end of each chapter to facilitate quick reference.

Salient Features

- ▶ Explains the concepts of fluid mechanics and its applications in fluid machinery with pictorial explanations.
- ▶ This second edition includes a new topic on Buoyancy and Floatation in chapter 4.
- ▶ Includes end-of-the-chapter exercises comprising of objective questions with answers, theory questions, and problems for practice.
- ▶ Contains more than 260 solved examples, which make the understanding of the concepts better.
- ▶ Each chapter provides at the end a useful list of formulae for quick reference.

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