

FLUID MECHANICS: A Concise Introduction

BIDYA SAGAR PANI



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This is a comprehensive and accessible text that discusses all the aspects of fluid mechanics in concise manner and easy to understand language. The contents of the book have been designed to match with the exact needs of the students. The book has attempted to provide linkages between the different fundamental concepts of fluid mechanics. It gives a holistic knowledge of the logic behind each of them through illustrations and simple worked-out examples. These features will help to approach any problem in a systematic way based on the theory learnt. After the end of each chapter, students will have a chance to review a summary of the presented features. Chapter-end problems have been carefully selected to supplement the theoretical knowledge. The book contains a list of important references at the end of each chapter, to serve as a guide to those students and teachers who wish to delve deeper into the subject matter.

The author has introduced the Navier–Stokes equations of motion for incompressible flows at an early stage, to formulate the governing equations for simple flows. This will arouse greater interest among the students to learn the solution techniques of Navier–Stokes equations.

This book is suitable for the undergraduate and postgraduate students of civil, chemical, mechanical and aerospace engineering.

KEY FEATURES

- Contents reflect the classroom-teaching experience of the author
- Provides answers to the why part of certain complicated concepts in theory
- Fundamental relations are presented in a general form to solve particular problems
- Worked out examples dovetail with the theory
- The book bridges the gap between contents of UG and PG level fluid mechanics

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