



Fluid Mechanics and its Applications

Vijay Gupta, Santosh K Gupta

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This text, written as an introduction to fluid mechanics for students of all engineering disciplines, emphasizes fluid flow phenomena and their modelling. The level of mathematics is kept at the minimum so that a student can pay full attention to the complexities of the fundamental physical concepts and develop a physical feel of the subject. Common misapplications, misunderstandings and over-generalizations made by students are anticipated and cautioned against. Relatively newer and simpler treatments have been used in several topics such as Euler acceleration formula, Reynolds transport theorem and Bernoulli equation, and a new unified treatment of modelling, similitude and the basis of approximations has been presented. A preview of fluid flow phenomena in Chapter 1 and an overview in the epilogue are included. A whole array of applications from diverse engineering disciplines has been introduced through numerous solved examples and over five hundred carefully graded problems. In this new edition, Chapter 9 on Similitude and Modelling has been re-written so as to make it easier to understand, and suggestions of several users have been incorporated.

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