



A Physical Introduction to Fluid Mechanics

By Alexander J. Smits

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Uncover Effective Engineering Solutions to Practical Problems With its clear explanation of fundamental principles and emphasis on real world applications, this practical text will motivate readers to learn. The author connects theory and analysis to practical examples drawn from engineering practice. Readers get a better understanding of how they can apply these concepts to develop engineering answers to various problems. By using simple examples that illustrate basic principles and more complex examples representative of engineering applications throughout the text, the author also shows readers how fluid mechanics is relevant to the engineering field. These examples will help them develop problem-solving skills, gain physical insight into the material, learn how and when to use approximations and make assumptions, and understand when these approximations might break down. Key Features of the Text

- * The underlying physical concepts are highlighted rather than focusing on the mathematical equations.
- * Dimensional reasoning is emphasized as well as the interpretation of the results.
- * An introduction to engineering in the environment is included to spark reader interest.
- * Historical references throughout the chapters provide readers with the rich history of fluid mechanics.

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Editorial Review

Review

I believe that any lecturer or student in the subject will find the text useful and certainly worth considering, either as the basis of a course, or an additional recommended text for an existing course". (Journal of Fluid Mechanics, Vol. 485, 2003)

From the Back Cover

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