



Introduction to Fluid Mechanics: includes CD

Edward J. Shaughnessy, Ira M. Katz, James P. Schaffer

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Introduction to Fluid Mechanics: includes CD Edward J. Shaughnessy, Ira M. Katz, James P. Schaffer *Introduction to Fluid Mechanics* provides a balanced and uniquely visual treatment of the tools used in solving modern fluid mechanics problems. Presenting an image-intensive approach to fluid dynamics through classic kinematic concepts, the book demonstrates the importance of flow visualization in a framework of modern experimental techniques and flow simulation.

Detailed photographs and diagrams of fluid motions and phenomena throughout the text help students to see and understand why equations change drastically for different types of flows. Output illustrations from CFD (computational fluid dynamics) programs illustrate the possibilities of flow behavior, enabling students to concentrate on ideas instead of mathematics. The book also provides the means to solve interesting problems early in the course by presenting case studies at the beginning of the text. These cases are revisited later to reinforce empirical rules and help explain advanced methods of analyzing a flow.

Creating a foundation for further study in this important and exciting field, *Introduction to Fluid Mechanics* is ideal for a first course in fluid mechanics. The book is designed to accommodate students concentrating in mechanical engineering as well as those in the civil, aerospace, and chemical engineering fields.

Features

- A highly organized 2-color interior and icons throughout the text aid in navigation and review.
- CFD icons indicate subject matter that directly or indirectly relates to computational methods to familiarize students with this powerful tool.
- FE icons note material that is covered in the Fundamentals of Engineering exam to help students prepare.
- Chapters on differential analysis of flow and on applications of fluid mechanics are self-contained so that instructors can pick and choose which topics to cover.

An **Instructor's Manual and CD** are available to adopters.

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