



Principles of Fluid Mechanics

Andreas N. Alexandrou

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Principles of Fluid Mechanics Andreas N. Alexandrou

This book provides a comprehensive and wide-ranging introduction to fluid mechanics, assuming only a basic knowledge of calculus and physics. Introduces fluid mechanics within the context of a broad range of topics and disciplines by combining elements and concepts from different disciplines as is often found in solutions to engineering problems. The book integrates a discussion of fluid flow phenomena with that of other subjects, such as Solid Mechanics, Heat Transfer, Thermodynamics, and others. It also includes discussions of other fields of specialization often used to solve engineering problems, such as chemistry, biology, economics, sociology, and others. And, it integrates the use of computers and modern experimental techniques. The first edition of *Introduction to Fluid Mechanics* provides a unique thematic organization and divides the material into three sections: **Theory**. This section is divided into four categories: Introduction, Conservation Laws, Fluid Kinematics, and Fluid Dynamics. **Analysis**. In this section, procedures such as Dimensionless Analysis, Analytics, Experimental and Numerical Solutions are introduced and applied to fundamental problems. **Special Topics**. Topics such as ideal, inviscid flow, compressible flow, and dynamics of rotating fluids are reserved for separate chapters. The book also introduces ideas from computational and experimental fluid mechanics. An essential reference for all engineering professionals.

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