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## Conceptual Physics

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## Conceptual Physics

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**Addison-Wesley**

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### Introduction to Engineering Fluid Mechanics

**Oxford University Press** We inhabit a world of fluids, including air (a gas), water (a liquid), steam (vapour) and the numerous natural and synthetic fluids which are essential to modern-day life. Fluid mechanics concerns the way fluids flow in response to imposed stresses. The subject plays a central role in the education of students of mechanical engineering, as well as chemical engineers, aeronautical and aerospace engineers, and civil engineers. This textbook includes numerous examples of practical applications of the theoretical ideas presented, such as calculating the thrust of a jet engine, the shock- and expansion-wave patterns for supersonic flow over a diamond-shaped aerofoil, the forces created by liquid flow through a pipe bend and/or junction, and the power output of a gas turbine. The first ten chapters of the book are suitable for first-year undergraduates. The latter half covers material suitable for fluid-mechanics courses for upper-level students. Although knowledge of calculus is essential, this text focuses on the underlying physics. The book emphasizes the role of dimensions and dimensional analysis, and includes more material on the flow of non-Newtonian liquids than is usual in a general book on fluid mechanics -- a reminder that the majority of synthetic liquids are non-Newtonian in character.

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**CRC Press** Over the last decade, the biggest advances in physical chemistry have come from thinking smaller. The leading edge in research pushes closer to the atomic frontier with every passing year. Collecting the latest developments in the science and engineering of finely dispersed particles and related systems, Finely Dispersed Particles: Micro-, Nano-, and Atto-Engineering explores heat, mass, momentum and electron transfer phenomena of well-characterized interfaces at the milli-, micro-, nano-, and atto-scales. An interdisciplinary team of leading experts from around the world discuss

recent concepts in the physics and chemistry of various well-studied interfaces of rigid and deformable particles in homo- and hetero-aggregate dispersed systems, including emulsions, dispersoids, foams, fluosols, polymer membranes, and biocolloids. The contributors clearly elucidate the hydrodynamic, electrodynamic, and thermodynamic instabilities that occur at interfaces, as well as the rheological properties of interfacial layers responsible for droplets, particles, and droplet-particle-film structures in finely dispersed systems. The book examines structure and dynamics from various angles, such as relativistic and non-relativistic theories, molecular orbital methods, and transient state theories. With a comprehensive survey of our current understanding, *Finely Dispersed Particles: Micro-, Nano-, and Atto-Engineering* provides a solid platform for further exploration and discovery at increasingly smaller scales.

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Conceptual Phics

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