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Modern Fluid Dynamics: Basic Theory and Selected ...

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“Fluid dynamics” implies fluid flow and associated forces described by vector equations, while convective heat transfer and species mass transfer are described by scalar transport equations.

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This book provides an accessible introduction to the basic theory of fluid mechanics and computational fluid dynamics (CFD) from a modern perspective that unifies theory and numerical computation. Methods of scientific computing are introduced alongside with theoretical analysis and MATLAB® codes are presented and discussed for a broad range of topics: from interfacial shapes in hydrostatics, to vortex dynamics, to viscous flow, to turbulent flow, to panel methods

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Since fluid dynamics involves the study of the motion of fluid, one of the first concepts that must be understood is how physicists quantify that movement. The term that physicists use to describe the physical properties of the movement of liquid is flow. Flow describes a wide range of fluid movement, such blowing through the air, flowing through a pipe, or running along a surface.

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This work evolved primarily out of industrial demands and post-graduate expectations, because a fine knowledge base in modern fluid dynamics is important, focusing on novel application areas such as microfluidics, mixture flows, fluid-structure interaction, biofluid dynamics, thermal flows, and fluid-particle transport.

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- Basic concepts of fluid dynamics
- Kinematics of fluid flows: translation/deformation/rotation, strain rates (tensor), stress, vorticity (tensor), etc.
- Revision on vector/tensor notations.
- 2. Method of flow analysis
- Frame of references: Lagrange/Eulerian, stream functions,
- Revision on N-S Equations
- Transport Equation for fluid flows.
- 3.

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