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Module Overview.

Module Description.

The module

introduces advanced

subjects in fluid

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focuses on the theory and applications of the fundamental physical laws governing Newtonian and non-Newtonian fluid flows. The Navier-Stokes and continuity equations are revisited and the Energy and the general Transport Equations for fluid flows will be derived.

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Dynamics - Module ...

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Mechanics 7 Notation

Notation

Symboldefinition units

Aarea 2 m Ddiameter

m Fforce N g

gravitational

acceleration m/s^2 h

head or height m

Llength m mmass kg

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Pressure P Pa or

N/m^2 ΔP pressure
difference Pa or N/m^2

Q volume flow rate

m^3/s r radius m t time s

V velocity m/s

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shows the "gobbling droplets" phenomenon. A jet of liquid is unstable because of surface tension and usually breaks into small droplets. The addition of minute quantities of polymeric molecules provides an additive elastic stress which stabilizes the liquid column.

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17: Lecture 17 : Fully developed flow

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The Inviscid Fluid: 2.

Static Fluids : L4:

Static Fluids: 3. Mass
Conservation in

Flowing Media : L5:

Mass Conservation in
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Inviscid Flow : L6:

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Steady Bernoulli

Equation: L7:

Unsteady/Generalized

Forms of the Bernoulli

Equation: 5. Control

Volume Theorems

and Applications : L8:

The Reynolds

Transport Theorem:

L9: Conservation ...

Lecture Notes |

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Fluid mechanics is a branch of continuous mechanics, in which the kinematics and mechanical behavior of materials are modeled as a continuous mass rather than as discrete particles. The relation of fluid mechanics and continuous mechanics

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has been discussed by Bar-Meir (2008). In fluid mechanics, the continuous domain does not hold certain shapes and geometry like solids, and in many applications, the density of fluid varies with time and position.

Fluid Mechanics - an
overview |

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ScienceDirect Topics

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Krishnamurthy Format
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includes: Differential relations for fluid particles, fluid acceleration,

Continuity equation, Potential flows and Navier-Stokes equation are introduced.

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is a survey of fluid
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in the water
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viscous flow as well. It
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in fluid mechanics has presently become a necessity. This book attempt at bridging the gap between basic principles and the training needed for complex engineering applications. The material covered should be of use to mechanical, chemical, aerospace and civil

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disciplines. It contains major chapters on

derivation of Navier-Stokes equations,

exact solutions,

potential theory,

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and turbulent flows.

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hydrodynamic stability

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are included. An

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publication. The authors, their colleagues and students have made important suggestions for improvement of the book. The authors have taken this opportunity to correct typographical errors and introduce new material as well as problems.

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on Bessel functions in

Chapter 3 and the

appendix on higher

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theory in Chapter 5

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from first principles is

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of momentum and energy equations for analysis at the scale of a control volume is highlighted. Bernoulli equation is shown to be a special form of the more general energy equation. Various suggestions and improvements have also been incorporated in other chapters. The goal, as

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before, is to train students so that they can create, design and analyze flow systems in the real world. This book was first published in 1996, and a revised edition was released in 1999. Quite a few comments and suggestions were received from students and

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averaged versions of the local treatment that, in turn is covered in considerable detail

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and Helmholtz functions, thermodynamic system equilibrium, and conditions for stability and spontaneous change. Chapter 2 deals with the general thermodynamic relations for systems of constant chemical composition; the development of

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mixtures, and gas
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dynamics, microfluidics, entropy generation, and fluid-structure interactions are among the topics covered. Part A presents fluids principles, and prepares readers for the applications of fluid dynamics covered in Part B, which includes computer simulations

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review of the

engineering math

needed for fluid

dynamics is included

in an appendix.

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