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Fluids – Lecture 5 Notes 1. Effects of Reynolds Number 2. Effects of Mach Number Reading: Anderson 1.10, 1.12 (1.10, 1.11 in 3rd Ed.) Dimensional Analysis has identified the important dimensionless parameters (or Π products), which determine the nature of a given aerodynamic flow situation. The main parameters

are

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Fluids – Lecture 3 Notes 1. 2-D Aerodynamic Forces and Moments 2. Center of Pressure 3. Nondimensional Coefficients Reading: Anderson 1.5 – 1.6 Aerodynamics Forces and Moments Surface force distribution The fluid flowing about a body exerts a local force/area (or stress) f~ on each point of the body.

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Fluids – Lecture 1 Notes 1. Formation of Lifting Flow Reading: Anderson 4.5 – 4.6 Formation of Lifting Flow Conservation of Circulation — Kelvin's Theorem The circulation about any closed circuit is defined to be Γ ≡ − I ~V ·d~s = − ZZ ~ξ·n dAˆ where d~s is an arc length element of the circuit, and V~ is the local flow velocity. The

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In 1961, Ascher Shapiro founded the National Committee for Fluid Mechanics Films (NCFMF) in cooperation with the Education Development Center and released a

series of 39 videos and accompanying texts which revolutionized the teaching of fluid mechanics. MIT's iFluids program has made a number of the films from this series available on the web. (Download / Purchase information.)

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Fluids – Lecture 12 Notes 1. Stream Function 2. Velocity Potential Reading: Anderson 2.14, 2.15 Stream Function Definition Consider defining the components of the 2-D mass flux vector ρV~ as the partial derivatives of a scalar stream function, denoted by ψ¯(x,y): ρu = ∂ψ¯ ∂y, ρv = − ∂ψ¯ ∂x

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Course notes. SES # TOPICS; 1. The Continuum Viewpoint and the Equation of Motion : L1: Introduction: Continuum Hypothesis: L2: The Material Derivative Lagrangian and Eulerian Descriptions Thermophysical Properties Compressibility Effects in Gases: L3: Forces Acting on a Continuum The Inviscid Fluid: 2. Static Fluids : L4: Static Fluids: 3.

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Lecture Notes. This section contains the lecture notes which serve two purposes: to guide the lecture topics and to serve as the required course readings. Many of the lecture notes have 1.63J/2.21J listed as the course number. This is the new course number as of Spring 2004, when the course will be offered as a joint course with the Mechanical Engineering Department, as part of an iCampus school-wide modular program on fluid mechanics at MIT.

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Note that there are two separate terms that we are talking about here. Liquid and fluid. According to Webster's Dictionary, a fluid is `a body whose particles move easily among themselves. Fluid is a generic term, including liquids and gases as species. Water, air, and steam are fluids.'

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Fluids – Lecture 1 Notes - MIT Fluids – Lecture 1 Notes. 1. Formation of Lifting Flow Reading: Anderson 4.5 – 4.6. Formation of Lifting Flow. Conservation of Circulation — Kelvin's Theorem The circulation about any closed circuit is defined to be Γ ≡ − V~ ·d~s = − ξ~ ·n dAˆ where d~s is an arc length element of the circuit ...

Fluid Mechanics: Fundamental Concepts, Fluid Properties (1 ...

Fluids – Lecture 1 Notes. 1. Introductory Concepts and Definitions 2. Properties of Fluids Reading: Anderson 1.1 (optional), 1.2, 1.3, 1.4. Introductory Concepts and Definitions. Fluid Mechanics and Fluid Dynamics encompass a huge range of topics which deal with the behavior of gasses and liquids.

lecture1 - MIT - Massachusetts Institute of Technology

0:00:10 - Definition of a fluid0:06:10 - Units0:12:20 - Density, specific weight, specific gravity0:14:18 - Ideal gas law0:15:20 - Viscosity0:22:00 - Newtoni...

National Committee for Fluid Mechanics Films

The lecture notes on this page were originally prepared for the 2008 course. They were written by the teaching assistant, Do-Nyun Kim, and typed by Dayán Páez. For convenience, the entire set of lectures is also available as a single download: (PDF - 2.0MB)

Bing: Fluids Lecture 1 Notes Mit

Fluids – Lecture 17 Notes 1. Oblique Waves Reading: Anderson 9.1, 9.2 Oblique Waves Mach waves Small disturbances created by a slender body in a supersonic flow will propagate diagonally away as Mach waves. These consist of small isentropic variations in ρ, V, p, and h, and are loosely analogous to the water waves sent out by a speedboat.

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Fluids – Lecture 1 Notes. 1. Formation of Lifting Flow Reading: Anderson 4.5 – 4.6. Formation of Lifting Flow. Conservation of Circulation — Kelvin's Theorem The circulation about any closed circuit is defined to be Γ ≡ − V~ ·d~s = − ξ~ ·n dAˆ where d~s is an arc length element of the circuit, and V~ is the local flow velocity.

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Fluids – Lecture 1 Notes 1. Introductory Concepts and Definitions 2. Properties of Fluids Reading: Anderson 1.1 (optional), 1.2, 1.3, 1.4 Introductory Concepts and Definitions Fluid Mechanics and Fluid Dynamics encompass a huge range of topics which deal with the behavior of gasses and liquids. In UE we will focus mainly on the topic subset called

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Fluids – Lecture 6 Notes 1. 3-D Vortex Filaments 2. Lifting-Line Theory Reading: Anderson 5.1 3-D Vortex Filaments General 3-D vortex A 2-D vortex, which we have examined previously, can be considered as a 3-D vortex which is straight and extending to ±∞. Its velocity field is Γ

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