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Course Description. This video is part of a series of screencast lectures in 720p HD quality, presenting content from an undergraduate-level fluid mechanics course in the Artie McFerrin Department of Chemical Engineering at Texas A&M University (College Station, TX, USA).

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1.1 Fluid Mechanics in Chemical Engineering. A knowledge of fluid mechanics is essential for the chemical engineer because the majority of chemical-processing operations are conducted either partly or totally in the fluid phase. Examples of such operations abound in the biochemical, chemical, energy, fermentation, materials, mining, petroleum, pharmaceuticals, polymer, and waste-processing industries.

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The branch of engineering science that has to do with the behaviour of fluids are understood to include liquid,gases and vapours is called fluid mechanics. Fluid mechanics is a branch of mechanics dealing with the properties of liquid and gases Fluid mechanics has two branches. 1.) Fluid statics, which treat fluid in the equilibrium state of no shear stress. Nature of fluids:-A fluid is a substance that doesn't permanently resist distortion.

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Fluid mechanics is the study of fluid behavior (liquids, gases, blood, and plasmas) at rest and in motion. Fluid mechanics has a wide range of applications in mechanical and chemical engineering, in biological systems, and in astrophysics. In this chapter fluid mechanics and its application in biological systems are presented and discussed.

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This course is an advanced subject in fluid and continuum mechanics. The course content includes kinematics, macroscopic balances for linear and angular momentum, stress tensors, creeping flows and the lubrication approximation, the boundary layer approximation, linear stability theory, and some simple turbulent flows.

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So, that is the main difference between solids and liquid fluids. So, fluid mechanics there are two things that we would like to look at; there is fluid statics. and then there is fluid dynamics. So, fluid statics is essentially study of the fluids at rest and dynamics is fluids. that are moving or are in motion.

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Fluid mechanics is important in chemical engineering because most of the substances that are handled are in the form of a fluid, whether liquid or gas. For instance in a refinery, petroleum and petroleum products are fluids. Fluids have different properties and need to be understood to be able to handle them properly.

[What is importance of fluid mechanics in chemical ...](#)

Fluid mechanics is the application of the fundamental principles of mechanics and thermodynamics - such as conservation of mass, conservation of energy and Newton's laws of motion - to the study of liquids and gases, in order to explain observed phenomena and to be able to predict behaviour.

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Darby's (chemical engineering, Texas A&M U.) book builds from specific cases to more general theories. As a textbook it is intended for a first course in fluid dynamics covering macroscopic mass, energy and momentum balances, flow of Newtonian and non-Newtonian incompressible fluids, adiabatic flows, and more.

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Fluid Mechanics is that branch of science which covers the behaviour of fluids when they are in a state of motion or rest. As we know, whether the fluid is at rest or motion, it is subjected to various forces and external conditions. It behaves in such conditions as per its physical properties.

#### Fluid Mechanics Formula: Concept, Important Formulas, Examples

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