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NPTEL; Civil Engineering; Fluid Mechanics (Web) Modules / Lectures. Introduction. Fluid continuum; Fluid as a continuum; Properties of fluid; viscosity; Surface Tension; Capillarity; Vapour Pressure; System and control volume; Solved problems-Properties of fluid; Solved problems-Surface Tension; Solved problems-Vapour Pressure; Fluid statics ...

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Fluid Mechanics 9-2g Fluid Statics Example 2 (FEIM): The rectangular gate shown is 3 m high and has a frictionless hinge at the bottom. The fluid has a density of 1600 kg/m<sup>3</sup>. The magnitude of the force  $F$  per meter of width to keep the gate closed is most nearly  $R$  is one-third from the bottom (centroid of a triangle from the NCEES Handbook).

### **Fluid Mechanics 9-1a1 - valpo.edu**

FLUID MECHANICS 203 TUTORIAL No.2 ... The solution of pipe flow problems requires the applications of two principles, the law of conservation of mass (continuity equation) and the law of conservation of energy (Bernoulli's ... This is the energy a fluid possesses by virtue of its altitude relative to a datum level.

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### **Fluid Mechanics FE Review - Inside Mines**

Discussion In some very simple fluid flow problems, the equations become uncoupled, and are easier to solve. 9-4C Solution We are to discuss the number of unknowns and the equations needed to solve for those unknowns for a three-dimensional, unsteady, incompressible flow field.

### **Fluid Mechanics: Fundamentals and Applications**

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