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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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Engineering Fluid Mechanics 7 Notation Notation

Symboldefinition units  
Aarea  $2\text{ m}$  Ddiameter  $\text{m}$  Fforce  $\text{N}$  g  
gravitational acceleration  $\text{m/s}^2$  h head or height  $\text{m}$  Llength  
 $\text{m}$  mmass  $\text{kg}$  Ppressure  $2\text{ Pa}$  or  $\text{N/m}^2$   $\Delta P$  pressure difference  
 $\text{Pa}$  or  $\text{N/m}^2$  Q volume flow rate  $\text{m}^3/\text{s}$  rradius  $\text{m}$  ttime  $\text{s}$   
Vvelocity  $\text{m/s}$

Engineering Fluid Mechanics - Staffordshire University

The Inviscid Fluid: 2. Static Fluids : L4: Static Fluids: 3. Mass  
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This is Advanced Fluid Mechanics which is a continuation of Fundamentals of Fluid Mechanics course. It includes: Differential relations for fluid particles, fluid acceleration, Continuity equation, Potential flows and Navier-Stokes equation are introduced.

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## Advanced Fluid Mechanics | Udemy

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 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.

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