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4 Fluid Mechanics, Thermodynamics of  
Turbomachinery newton (N), defined as  
that force which, when applied to a mass

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of 1kilogram, gives an acceleration to the mass of  $1\text{m/s}^2$ . The recommended unit of pressure is the pascal (Pa) which is the pressure produced by a force of 1newton uniformly distributed over an area of 1square metre.

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In fluid mechanics, the first law of thermodynamics takes the following form:

$$\frac{DE_{t}}{Dt} = \frac{DW}{Dt} + \frac{DQ}{Dt} \rightarrow \frac{DE_{t}}{Dt} = \nabla \cdot (\mathbf{\sigma} \cdot \mathbf{v}) - \nabla \cdot \mathbf{q}$$

### **First law of thermodynamics (fluid**



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NAME: DATE: Question 1 Water at 50  
degrees Celsius flows at a mass flow

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rate of 20 kg/s in a 200 mm diameter pipeline. a) Find the density and dynamic viscosity of the water at this temperature let be the dynamic ...

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