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a static fluid will always be normal to the surface. We shall discover later that the situation is rather different when the dynamic forces of a moving fluid stream are considered (Section 2.3). Secondly, at any point within a static fluid, the pressure is the same in all directions. Hence, static pressure is a scalar rather than a vector quantity.

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1.1 Properties of Fluids, Continuum Hypothesis Fluid mechanics is concerned with the behavior of materials which deform without limit under the influence of shearing forces. Even a very small shearing force will deform a fluid body, but the velocity of the deformation will be correspondingly small.

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The directed movement of fluids is possible in systems with: 1. closed cross section (pipe flow) 2. free surface (open channel flow) In the case of the pipe flow the fluid is enclosed generally by a pressure resistant bound. The pressure head of the fluid can be determined by piezometer.

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