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pascal s principle change in pressure applied to an enclosed fluid is transmitted undiminished to all portions of the fluid and to the walls of its container poiseuille s law rate of laminar flow of an incompressible fluid in a tube  $q = \frac{\pi r^4 \Delta p}{8 \eta l}$

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thus it is useful to use the eulerian description or control volume approach and describe the flow at every fixed point in space  $x y z$  as a function of time  $t$  reading 3 z x w u figure 1 an eulerian description gives a velocity vector at every point in  $x y z$  as a function of time in an eulerian velocity field velocity is a

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describe the relationship between flow rate and velocity explain the consequences of the equation of continuity to the conservation of mass the first part of this chapter dealt with fluid statics the study of fluids at rest the rest of this chapter deals with fluid dynamics the study of fluids in motion

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fluid mechanics is the study of fluids as an important branch of engineering mechanics almost everything on this planet either is a fluid or moves within or near a fluid the essence of the subject of fluid flow is a judicious compromise between theory and experiment

## ***1 1 what is fluid mechanics engineering libretexts***

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fluid mechanics is a branch of continuous mechanics which deals with a relationship between forces motions and statical conditions in a continuous material this study area deals with many and diversified problems such as surface tension fluid statics flow in enclosed bodies or flow round bodies solid or otherwise flow stability etc

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