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dynamics pressure and pascal's law pressure is defined as thrust per unit area or force per unit area in the direction density and relative density density is a physical quantity that gives the amount of mass contained per unit volume of archimedes web this course covers the physical properties of fluids and their effect on flow behavior equations of motion for incompressible ideal flow including the special case of hydrostatics continuity energy and momentum principles control volume analysis laminar and turbulent flows internal and external flows in specific engineering applications web fluid mechanics is a way of looking at a group of particles without having to study each particle separately a fluid at rest hydrostatics is a trivial case of fluid mechanics where no stresses due to fluid motion exist fluids have to be moving to be non trivial fluid mechanics is fundamentally non linear the mechanics of fluids vs solids web the topic of fluid mechanics is common to several disciplines mechanical engineering aerospace engineering chemical engineering and civil engineering in fact it is also related to disciplines like industrial engineering and electrical engineering web 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

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