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fluid mechanics science concerned with the response of fluids to forces exerted upon them it is a branch of classical physics with applications of great importance in hydraulic and aeronautical engineering chemical engineering meteorology and zoology the most familiar fluid is of course

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fluid mechanics is the branch of physics concerned with the mechanics of fluids liquids gases and plasmas and the forces on them 1 3 it has applications in a wide range of disciplines including mechanical aerospace civil chemical and biomedical engineering as well as geophysics oceanography meteorology astrophysics and biology

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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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a fluid is a state of matter that yields to sideways or shearing forces liquids and gases are both fluids fluid statics is the physics of stationary fluids density is the mass per unit volume of a substance or object while pressure is the force per unit perpendicular area over which the force is applied

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basic fluid mechanics laws dictate that mass is conserved within a control volume for constant density fluids thus the total mass entering the control volume must equal the total mass exiting the control volume plus the mass accumulating within the control volume

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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 around bodies solid or otherwise flow stability etc

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course description this class provides students with an introduction to principal concepts and methods of fluid mechanics topics covered in the course include pressure hydrostatics and buoyancy open systems and control volume analysis mass conservation and momentum conservation for moving fluids viscous fluid flows flow through

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fluid mechanics is the physics of flowing matter which includes but is not limited to cars moving through the traffic grid waste flowing through the sewer system gases moving through an engine or sap moving sucrose from the leaves to the distal parts of a tree

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the rest of this chapter deals with fluid dynamics the study of fluids in motion even the most basic forms of fluid motion can be quite complex for this reason we limit our investigation to ideal fluids in many of the examples an ideal fluid is a fluid with negligible viscosity

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fluid kinematics is the study of fluid in motion without considering the force that causes the motion it helps us in understanding the behavior of fluids in a system where linear and turbulent fluid flow can drastically change this

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fluid mechanics is the study of fluid behavior liquids gases blood and plasmas at
rest and in motion fluid mechanics has a wide range of applications in mechanical
and chemical engineering in biological systems and in astrophysics in this chapter
fluid mechanics and its application in biological systems are presented and
discussed

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