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web the topic of fluid mechanics is common to several disciplines mechanical engineering aerospace engineering chemical engineering and civil engineering in fact it is
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web 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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web 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 $m_{in} = m_{out} + m_{acc}$

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web 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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motion it is subjected to various forces and external conditions it behaves in such conditions as per its physical properties

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