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definition of a fluid fluid mechanics deals with the behaviour of fluids at rest and in motion it is logical to begin with a definition of fluid fluid is a substance that deforms continuously under the application of shear tangential stress no matter how small the stress may be alternatively we may fluid mechanics is a branch of mechanics that

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1 Fundamentals of hydraulics (hydromechanics) Mechanics generally focuses on the behaviour of bodies under the influence of forces. Bodies consist of materials with defined characteristics. These materials can occur in three states of aggregation: solid, liquid and gaseous.

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3) pressure and fluid statics. 4) fluid kinematics. 5) bernoulli and energy equations. 6) momentum analysis of flow systems. 7) dimensional analysis and modeling. 8) internal flow. 9) differential analysis of fluid flow. 10) approximate solutions of the navier-stokes equation. 11) external flow: drag and lift. 12) compressible flow. 13) open-channel flow

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