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Fluid Mechanics and Hydraulics |

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Hydraulics, branch of science concerned with the practical applications of fluids, primarily liquids, in motion. It is related to fluid mechanics ( q.v. ), which in large part provides its theoretical foundation. Hydraulics deals with such matters as the flow of liquids in pipes, rivers, and channels and their confinement by dams and tanks.

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Questions :-1. Fluid is a substance  
that (a) cannot be subjected to



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shear forces (b) always expands until it fills any container (c) has the same shear stress.at a point regardless of its motion (d) cannot remain at rest under action of any shear force (e) flows. Ans: d. 2.

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Mechanics/Hydraulics &  
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URPD Q ... Compute the energy  
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## FE Review-Fluid Mechanics/Hydraulics & Hydrologic Systems

The hydraulic jack is such a hydraulic system. A hydraulic jack is used to lift heavy loads, such as the ones used by auto mechanics to raise an automobile. It consists of an incompressible fluid in a U-tube fitted with a movable piston on each side. One side of the U-tube is narrower than the other.

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Fluid Mechanics and Hydraulics -  
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The subject of Fluid Mechanics

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may be defined as the mechanics of fluids (including water). The subject Hydraulic Machines may be defined as that branch of Engineering-science, which deals with the machines run by water under some head, or raising the water to higher levels.

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Hydraulics and Fluid Mechanics is a collection of papers from the Proceedings of the First Australian Conference held at the University of Western Australia on December 6-13, 1962 at Nedlands, Australia. This book deals with the science of hydraulics and fluid mechanics in their practical uses in industry and research. In special situations when high-pressure oil is used in mechanical equipment, hydraulic lock is preferred for valve control. This book reviews the pressure drop in the pneumatic transfer of granular solids in a pipe where a formula is derived to determine the pressure drop when using either a straight or bent pipe. This text also discusses the improvements on the cavitation performance of flow pumps by

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exercises two different solution methods are proposed, to highlight the fact that the level of complexity of the calculations is often linked to the choice of method, though in most cases only the simplest method is presented. The exercises are organized by subject, covering forces on planes and curved surfaces; floating bodies; exercises that require the application of linear and angular momentum balancing in inertial and non-inertial references; pipeline systems, with particular applications to industrial plants; hydraulic systems with machines (pumps and turbines); transient phenomena in pipelines; and uniform and gradually varied flows in open channels. The book also features appendices that contain

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