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Assumptions 1 The inner cylinder is completely submerged in the fluid. 2 The viscous effects on the two ends of the inner cylinder are negligible. 3 The fluid is Newtonian. R

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FLUID MECHANICS FUNDAMENTALS AND APPLICATIONS YUNUS A. ÇENGEL  
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Fluid mechanics is a branch of mechanics that studies fluids and the forces on them. Fluid mechanics examines fluids in two subsystems: static and dynamic. Fluids, and especially air and water, have a major role in the life of creatures and ~65% of our body is composed of water.

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And in solid, the stress is directly proportional to the strain, whereas, in fluid the stress is directly proportional to the strain rate. Thus, a solid differs from a fluid. A liquid is a substance which has its own definite volume, whereas gas is the one which occupies the volume of its container and doesn't have its own definite volume.

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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.:3 I It has applications in a wide range of disciplines, including mechanical, civil, chemical and biomedical engineering, geophysics, oceanography, meteorology, astrophysics, and biology.

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