

Applied Fluid Mechanics

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Applied Fluid Mechanics by Robert L. Mott

The Applied Fluid Mechanics Laboratory (AFM) focuses on the application of fluid mechanics principles to solve important industrial and biological problems.

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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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Fluid mechanics is the branch of physics concerned with the mechanics of fluids and the forces on them. It has applications in a wide range of disciplines, including mechanical, civil, chemical and biomedical engineering, geophysics, oceanography, meteorology, astrophysics, and biology. It can be divided into fluid statics, the study of fluids at rest; and fluid dynamics, the study of the effect of forces on fluid motion. It is a branch of continuum mechanics, a subject which models matter witho

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Fluid pressure is computed from p = F/A (3-1) The standard unit for pressure in SI units is the pascal (Pa) or N/m z. Whereas the standard unit for pressure in the V.S. Customary System is lb/ftz, the unit lb/inz (psi) i:- more convenient and is used most often.

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