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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

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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^2 . Whereas the standard unit for pressure in the V.S. Customary System is lb/ft^2 , the unit lb/in^2 (psi) is more convenient and is used most often.

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