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Concepts of a Fluid.
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Velocity, and the Basic
Laws. Physical Properties--
Density, Viscosity, and
Surface Tension. Units
and Systems of Units.
Hydrostatics. Pressure
Change Caused By
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Fluid mechanics helps us
understand the behavior
of fluid under various
forces and at different
atmospheric conditions,
and to select the proper
fluid for various
applications. This field is
studied in detail within
Civil Engineering and also
to great extent in
Mechanical Engineering
and Chemical
Engineering.

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includes kinematics, macroscopic balances for linear and angular momentum, stress tensors, creeping flows and the lubrication approximation, the boundary layer approximation, linear stability theory, and some simple turbulent flows.

NPTEL :: Chemical Engineering - Fluid Mechanics

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Fluid Mechanics for Chemical Engineers

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An understanding of fluid mechanics is essential for the chemical engineer because the majority of chemical-processing operations are conducted

either partially or totally in the fluid phase. Such knowledge is needed in the biochemical, chemical, energy,

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