

Fluid Mechanics

FLUID MECHANICS



FLUID

Fluid can flow (continuous plastic deformation)

Fluid is a substance that can deform continuously under the action of tangential force (shear stress) no matter how small the tangential force is.

That means fluid cannot support under static condition.

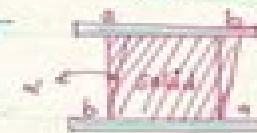
In fluid rate deformation is far more

important than total deformation

because fluid continues to deform as long as external shear force is applied.

$\dot{\gamma}$ = Rate of shear strain

— SOLID —



F (tangential force)

\times shear force



dy - Coloured fluid

} Total deformation

SOLID, LIQUID & GAS

CHARACTERISTIC	SOLID	LIQUID	Gas
1. Response to shear stress	Resist total deformation	Resist rate of deformation	Resist rate of deformation
2. Compressibility (B)	Incompressible	Virtually incompressible	Compressible
3. Ability to conform shape of container	No	Yes	Yes
4. Ability to form free surface	Yes	Yes	No
5. Ability to expand without limit	No	No	Yes
6. Ability to resist small amount of tensile stress	Yes	Yes (a) No (b)	No

Pdf Mechanics Fluids Activate Learning Engineering

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