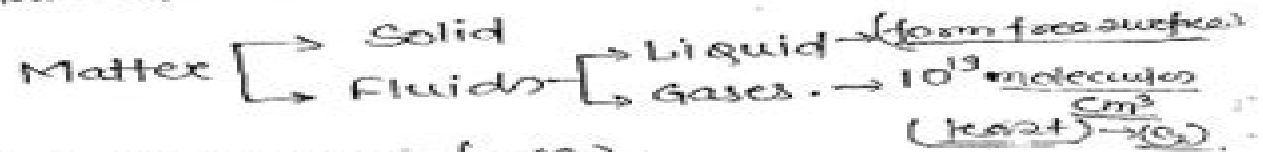


Introduction

Fluid & Properties:-

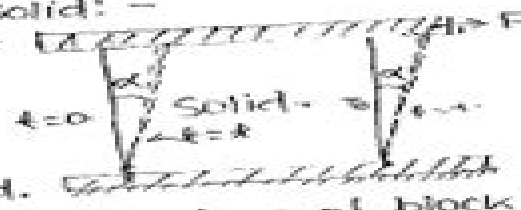
* fluid is a state of matter.



Ability to resist	Difference force).
(1) Tensile	Solid $\checkmark$ Fluids (negligibly small).
(2) Compressive	Solid $\checkmark$ Fluids (yes, when confined in a container).
(3) Shear.	Solid $\checkmark$ Fluids (NO, characteristic property).
	(with in certain limit).

Behaviour of solid and Fluids under the application of Shear forces:-

Experimental set up for solid:-

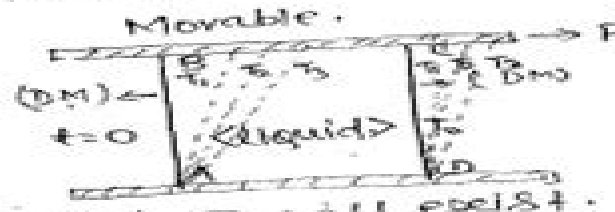


$\tau = \left(\frac{F}{A} \right)$ (tensile stress)
(internal stress)
[F < elastic limit]

fixed. When F will be withdrawn body will regain its shape because F < elastic limit.

Experimental set up for liquid:-

(DYE MARKER)



(water everywhere)

As force on F will exist τ will exist.
As soon as F will withdrawn ($\tau = 0$). (no internal stress remain).
i. not able to resist shear stress.
(inability)

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Huangqi Zhang



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