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MECHANICAL ENGINEERING
Fluid Mechanics

BY- Varun Pathak Sir

- Theory
- Explanation
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①

FLUID

MECHANICS

By: Varun Pathak Sir

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Introduction

②

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* A fluid is a substance that is having the ability to flow or deform continuously under the action of shear force [Tangential force], no matter how much small the force is.

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* No slip condition or Maxwellian condition [Experimental]

* Free Surface :

Difference between Solids & Fluids

① In case of solids the deformation is constant with respect to time whereas in case of fluids

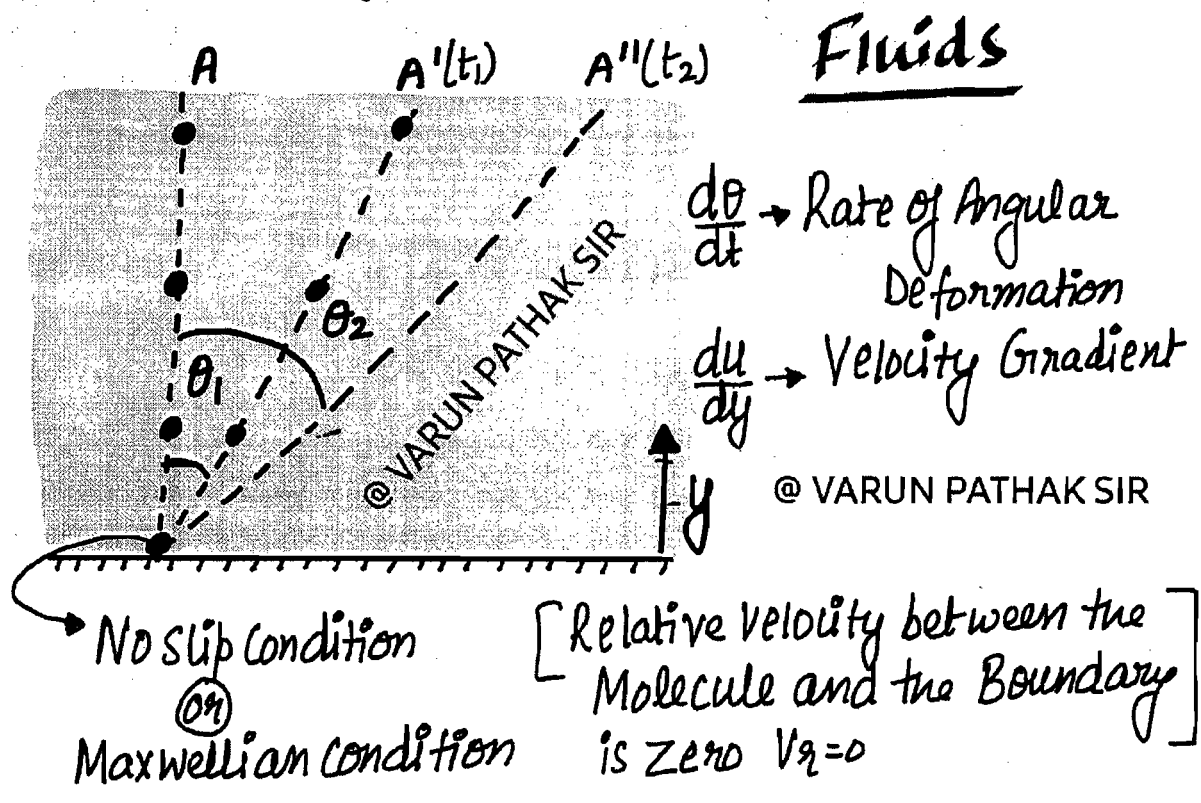
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deformation is continuous with respect to time i.e. In case of fluids Rate of Deformation ($\frac{d\theta}{dt}$) is more important than deformation. @ VARUN PATHAK SIR

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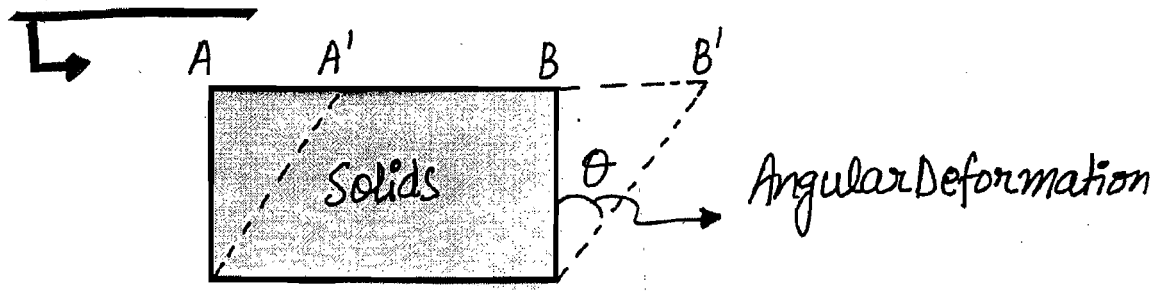
② In case of Solids on removal of load, Solids will try to regain their Original Shape whereas fluids will never try to regain original shape.



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Solids

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Note :

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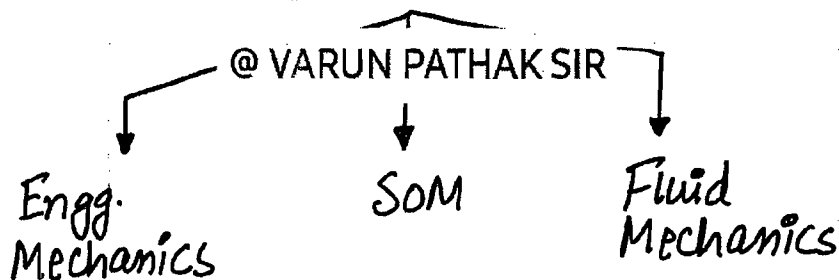
(4)

The Intermolecular force of attraction between molecules of same nature is known as cohesion whereas intermolecular force of attraction between molecules of different nature is known as adhesion.

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Eg. Water in contact with Glass →
Mercury in contact with Glass →
Water in contact with Plastic Sheet →

Mechanics :



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