

Chapter 1 Introduction

1.1 Classification of a Fluid (A fluid can only sustain tangential force when it moves)

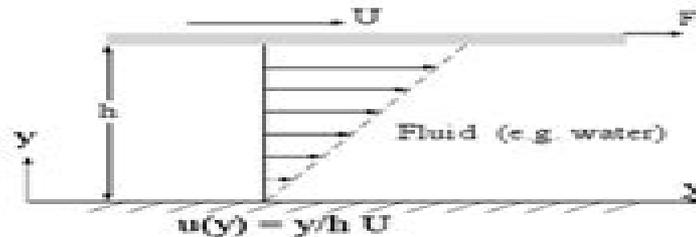
- 1.) By viscous effect: inviscid & Viscous Fluid.
- 2.) By compressible: incompressible & Compressible Fluid.
- 3.) By Mach No: Subsonic, transonic, Supersonic, and hypersonic flow.
- 4.) By eddy effect: Laminar, Transition and Turbulent Flow.

The objective of this course is to examine the effect of tangential (shearing) stresses on a fluid.

Remark:

For a ideal (or inviscid) flow, there is only normal force but tangential force between two contacting layers.

1.2 Simple Notation of Viscosity



(tangential force required to move upper plate at velocity of U)

From observation, the tangential force per unit area required is proportional to U/h , or du/dy . Therefore

$$\tau = \text{shear stress} = \text{tangential force per unit area } (F/A) \propto \frac{U}{h}$$

or

$$\tau = \mu \frac{U}{h} = \boxed{\mu \frac{\partial u}{\partial y}} \quad \text{"Newton's Law of function"} \quad (1.1)$$

μ : Constant of proportionality

The first coefficient of viscosity

Remark:

E.g. (1.1) provides the definition of the viscosity and is a method for measuring the viscosity of the fluid.

Advanced Fluid Mechanics An Introduction

Kathleen Armour



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