

Fluid Mechanics

What is fluid?

Why we need force to move fluid?

What is viscosity?

What is kinematic viscosity?

Difference between newtonian and non newtonian fluid.

What is pseudo plastic fluid? Give examples.

What is viscoplastic fluid? Give examples.

What is bingham plastic fluid? Give examples.

What is dilatant fluid ? Give examples.

What is bernouli equation?

Assumptions of bernouli equation.

What is navier stokes equation?

Difference between lagrange and eularian approach.

What is fluidization?

Types of fluidization.

What is incipient fluidization velocity?

Difference between Packed bed and fluidized bed.

What is stokes law?

Difference between hindered and free settling.

What is Ergun Equation?

What are flowmeters?

Different type of flowmeters.

Difference between orifice meter and venturi meter.

What is vena contracta?

What is difference between pumps and compressor?

What are pumps?

Types of pumps.

What do you mean by head?

What is pressure head?

What is centrifugal pump?

Advantages and disadvantages of centrifugal pump.

What is reciprocating pump?

Advantages and disadvantages of reciprocating pump.

What are rotary pumps

Types of rotary pumps

What are fan laws?

Characteristics curve of centrifugal pumps.

Characteristics curves of reciprocating pump.

What is NPSH?

What is priming?

What is cavitation?

What are different types of NPSH?

How to avoid cavitation?

How to increase NPSH available?

Inlet pipe of centrifugal pump should be bigger or smaller in diameter than outlet pump. Reason

What is mechanical, manometric and overall efficiency of the pump?

What is valve?

Difference between valves and control valves.

Types of different valves.

What is turbine?

Difference between turbine and pump.

What are different types of compressors?

What is surging in centrifugal compressor?

What is choking flow in centrifugal compressor?

Characteristics curve of centrifugal compressor.

What is Mach number?

Difference between compressible and incompressible fluid.



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