

E CONTENT DEVELOPMENT FACILITY



E CONTENT DEVELOPED BY FACULTY

Introduction to Fluid Mechanics || FLUID MECHANICS || TUTORIAL

<https://www.youtube.com/watch?v=KYtga4eqWJ4&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=1>

Example problem on properties of fluids || fluid mechanics

<https://www.youtube.com/watch?v=B4NxPwPUhqI&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=2>

Properties of Fluids in fluid mechanics

<https://www.youtube.com/watch?v=zvaPAHdOHZc&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=3>

PROBLEM-1 ON VISCOSITY OF FLUIDS

<https://www.youtube.com/watch?v=uWZRmyvOVaM&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=4>

ANGLE OF CONTACT || FLUID MECHANICS

<https://www.youtube.com/watch?v=5G2M9Gh8rN0&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=5>

COHESIVE FORCE AND ADHESIVE FORCE || FLUID MECHANICS

<https://www.youtube.com/watch?v=yNv3yTDi0JI&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=6>

SURFACE TENSION FULLY EXPLAINED || FLUID MECHANICS

<https://www.youtube.com/watch?v=GOsi1kc6BbY&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=7>

INTRODUCTION TO VISCOSITY AND BASICS || FLUID MECHANICS

<https://www.youtube.com/watch?v=X95asRQzSu8&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=8>

DIFFERENT TYPES OF FLUIDS, REAL FLUID , IDEAL FLUIDS , NEWTONIAN FLUIDS.....|| FLUID MECHANICS

<https://www.youtube.com/watch?v=9GL3eoQoSdM&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=9>

SHAPE OF RAIN DROPS || FLUID MECHANICS

<https://www.youtube.com/watch?v=mgybzRxsTcg&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=10>

Capillary Effect || fluid mechanics

<https://www.youtube.com/watch?v=yBOxz4At1Iw&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=11>

Capillary Effect problem

<https://www.youtube.com/watch?v=Nro9MfXV5Yc&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=12>

Pressure inside a liquid jet

<https://www.youtube.com/watch?v=hoTqlxhg69E&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=13>

COMPRESSIBILITY & BULK MODULUS AND IT'S EXAMPLE

<https://www.youtube.com/watch?v=Ptshq14-qKM&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=14>

Pressure inside a water bubble and it's example || fluid mechanics

https://www.youtube.com/watch?v=tjd7LF5G_sk&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=15

Pressure inside a soap bubble and it's example

<https://www.youtube.com/watch?v=4VNVr4TCLLE&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=16>

FLUID PRESSURE AT A POINT

<https://www.youtube.com/watch?v=za82IXUgjM0&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=17>

VAPOUR PRESSURE & CAVITATION || fluid mechanics ||

<https://www.youtube.com/watch?v=nbV9Tt7aBvc&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=18>

What is Pascal's Law

<https://www.youtube.com/watch?v=2U0aEvYZ-mY&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=19>

What is definitions of Absolute Pressure Gauge Pressure, Atmospheric Pressure, Vacuum Pressure

<https://www.youtube.com/watch?v=7HkD7JtqDaU&list=PLrAAwWUfzGxHf3vGCzQ0f2c-8tphxtpO7&index=20>

DIFFRACTION DUE TO SINGLE SLIT

<https://www.youtube.com/watch?v=0ZiWCxoZNiw&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=1>

DIFFRACTION DUE TO DOUBLE SLIT

<https://www.youtube.com/watch?v=OHV8nSp1sUg&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=2>

DIFFRACTION DUE TO TON SLITS OR DIFFRACTION GRATING

<https://www.youtube.com/watch?v=qEKH0cEoz1k&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=4>

optical fiber construction and working

<https://www.youtube.com/watch?v=nxatfVBXMD0&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=5>

introduction to pressure vessels,thick pressure vessel,thin pressure vessel - strength of materials

https://www.youtube.com/watch?v=vhExN_nRZO8&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=6

Difference between thick and thin pressure vessels

<https://www.youtube.com/watch?v=krIN0i8UwD4&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=7>

Discharge over a Trapezoidal Weir || FLUID MECHANICS etution

https://www.youtube.com/watch?v=T_nJD9-su4&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=8

INTRODUCTION TO THIN FILMS - what is a thin film?

<https://www.youtube.com/watch?v=aY1VxwIbr6E&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=11>

population inversion of laser

<https://www.youtube.com/watch?v=ADpmJppu83Q&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=12>

TORSIONAL RIGIDITY

<https://www.youtube.com/watch?v=sOX05WQtWJQ&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=13>

newton rings - interference complete tutorial

https://www.youtube.com/watch?v=cA8g_pjoTrg&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=14

introduction to propped cantilever beam || etution || structural analysis- 1

<https://www.youtube.com/watch?v=2NSVA7e4n1U&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=18>

Formation of colours in thin films

<https://www.youtube.com/watch?v=mQrlhwvLIQw&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=23>

Discharge over a Rectangular Weir Fluid Mechanics etution Rectangular WEIR

<https://www.youtube.com/watch?v=JhYmhYuy1bY&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=31>

BLOCH THEOREM || BAND THEORY OF SOLIDS || ENGINEERING PHYSICS

<https://www.youtube.com/watch?v=Rud0mPOXhEo&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=30>

DISCHARGE OVER A RECTANGULAR NOTCH OR WEIR | rectangular notch

<https://www.youtube.com/watch?v=-EQSu8XzPI4&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=36>

Discharge over a Submerged Weir FLUID MECHANICS etution

https://www.youtube.com/watch?v=DE-cb6gH_Js&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=39

DIFFERENT TYPES OF FLOWS WITH REYNOLDS EXPERIMENT LAMINAR FLOW, TRANSITIONAL FLOW, TURBULENT FLOW

<https://www.youtube.com/watch?v=akrFLj6fe6I&list=RDCMUCGkdoRu2tj3FU0g82fcIBrQ&index=47>