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*Properties of
Fluid Problem 1
- Properties of
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Fluid Statics 1

~~Introductory~~

~~Fluid Mechanics~~

~~L2 p5: Example~~

~~Problem - Wall~~

~~Shear Stress~~

Compound

manometer

example problem

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Continuity

Equation, Volume

Flow Rate \u0026

Mass Flow Rate

Physics Problems

Fluid Mechanics:

Topic 9.2 -

Example of type

I pipe flow

problem

Introduction to

Pressure \u0026

Fluids - Physics

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Problems **Fluid**

Mechanics

Problem 1-25

Solution

How to solve
manometer
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*Viscosity of
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*Gradient - Fluid
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~~Exam Fluid~~

~~Mechanics~~

~~Force Acting On~~

~~An Inclined~~

~~Plane~~

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- Review - Fluid

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~~What is a Fluid?~~

~~[Physics of~~

~~Fluid Mechanics~~

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Tutorial 13 -*

Bernoulli

Equation II:

Examples FE Exam

Fluid Mechanics

- Continuity

Equation

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Manometers -

part 1 Fluids

Multifluid

Manometer

Example #2

Bernoulli's

Equation 11.3

Pressure and

Depth in a

Static Fluid

Example

Manometer

Equation Fluid

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Module 1 /

Numericals on
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(Lecture 6)

Bernoulli's

Equation Example

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PROBLEMS ON

PROPERTIES OF

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Stokes Equation

| A Million-

Dollar Question

in Fluid

Mechanics

~~PROBLEM 1 ON~~

~~VISCOSITY OF~~

~~FLUIDS || fluid~~

~~mechanics ||~~

~~Archimedes~~

~~Principle,~~

~~Buoyant Force,~~

~~Basic~~

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~~Buoyancy \u0026~~

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On A Plane

Surface Fluid

~~Mechanics: 100~~

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solutions.

Torricelli's
theorem. 1. A
container filled
with water and
there is a hole,
as shown in the
figure below. If

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acceleration due to gravity is 10 ms^{-2} , what is the speed of water through that hole? Known : Height (h) = $85 \text{ cm} - 40 \text{ cm} = 45 \text{ cm} = 0.45 \text{ meters}$.

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Problems

Fluid Mechanics
is an important

and fundamental
branch of

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governing

equations and
similar

phenomena can be
seen in various

branches and
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world. ...
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problems.

Solution: a. The
solution of
problem (a) is
straightforward.

Integrating
twice gives $u = y$
 $c_1 y + c_2 + \frac{1}{2} Ay$
(1.10) Finding
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Problems for
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(Fall 2014) 1.

Consider a
steady,
incompressible
boundary layer
with thickness,
 $\delta(x)$, that de-

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velops on a flat plate with leading edge at $x = 0$. Based on a control volume analysis for the dashed box, answer the following: a) Provide an expression for the mass flux \dot{m} based on ρ, V , u , and δ .

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Solution F3 :

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1.11. Problem F5

Solution F5 :

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2.3-2.4. Problem

F6 Solution F6 :

F7

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~~II, III, & IV~~

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Example 30 In the pipe system depicted below, the discharge in pipe AB is $100 \text{ m}^3/\text{sec}$. Branch 1 is 500 m long, and it has a diameter of 2 m and a friction factor of 0.018 . Branch 2 has a length of 400 m ,

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diameter of 3 m,
and a friction
factor of 0.02.

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~~Problems for FE~~

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Solution The

pressure in a

tank is measured

with a manometer

by measuring the

differential

height of the

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manometer fluid.

The absolute pressure in the tank is to be determined for two cases: the manometer arm with the (a) higher and (b) lower fluid level being attached to the tank.

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manometer is
incompressible.

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Liquid pressure.

1. What is the d

ifference

between the

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hydrostatic
pressure of
blood between
the brain and
the soles of
the feet of a
person whose
height 165 cm
(suppose the
density of blood
 $= 1.0 \times 10^3$
kg/m³,
acceleration due
to gravity = 10

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m/s²)

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relevant to the
fluid mechanics
and momentum
transfer

problems below,
please refer to
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books: Bird, R.
B., Stewart, W.
E., and
Lightfoot, E. N

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