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Fluid Mechanics Lecture - Fluid Mechanics Lecture by Yu Jei Abat 150,965 views 4 years ago 1 hour, 5 minutes - Lecture on the basics of fluid **mechanics**, which includes: - Density - Pressure, Atmospheric Pressure - Pascal's Principle - Bouyant ...

Fluid Mechanics

Density

Example Problem 1

Pressure

Atmospheric Pressure

Swimming Pool

Pressure Units

Pascal Principle

Sample Problem

Archimedes Principle

Bernoullis Equation

Fluid Mechanics: Topic 4.3 - Hydrostatic force on a curved surface - Fluid Mechanics: Topic 4.3

- Hydrostatic force on a curved surface by CPPMechEngTutorials 318,998 views 7 years ago 10

minutes, 32 seconds - Note: When calculating F_1 , it is better to think of the calculation as pressure P_1 times area A_1 . In this particular example, $P_1 A_1$...

Intro

For planar (2D) surfaces, the pressure force orientation is the same at each point on the surface. For curved (3D) surfaces, the pressure force orientation can change at each point on the surface. + integration is often much more difficult

Procedure for determining F_x

Step 3: Draw a free body diagram of the fluid.

Step 4: Use Newton's Second Law to find the components of F_x

In the vertical direction

Obtain moment arms (about point o)

Moment arm of $F = 1/2$

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Fluid Mechanics - PROBLEMS ON PROPERTIES OF FLUIDS - Fluid Mechanics - PROBLEMS ON PROPERTIES OF FLUIDS by Innovation and Creativity 36,415 views 3 years ago 32 minutes - Problems on Properties of Fluids such as Mass Density, Weight Density, Viscosity which can be helpful in GATE Exam also.

Physics 33.1 Surface Tension (3 of 12)The "Walking" on Water Water-Bug - Physics 33.1 Surface Tension (3 of 12)The "Walking" on Water Water-Bug by Michel van Biezen 30,820 views 10 years ago 4 minutes, 5 seconds - In this video I will show you how to calculate the contact angle of a bug "walking" on water. Next video in this series can be found ...

Thermodynamics - Test 1 Problem 1 - Multifluid manometer - Thermodynamics - Test 1 Problem 1 - Multifluid manometer by Engineering Deciphered 90,554 views 3 years ago 12 minutes, 18 seconds - Change in pressure with fluid depth. Absolute vs. gage pressure Like and subscribe! And get the notes here: Thermodynamics: ...

Strength of Materials I: Review Principles of Statics, Internal Resultant Loads (1 of 20) - Strength of Materials I: Review Principles of Statics, Internal Resultant Loads (1 of 20) by CPPMechEngTutorials 130,076 views 5 years ago 59 minutes - This lecture series was recorded live at Cal Poly Pomona during Spring 2018. The textbook is Beer, Johnston, DeWolf, and ...

Equilibrium

The Centroid

Moment of Inertia

Parallel Axis Theorem

Parallel Axis Theory

Location of the Centroid

Unit of Moment of Inertia

What Is I_x Prime

Weight of the Beam

Example

Is Compression Going Away from the Joint Is in Tension

Bending Stress Examples - Bending Stress Examples by ECUSW 271,624 views 10 years ago 9 minutes, 32 seconds - Example problems showing the calculation of normal stresses in symmetric and non-symmetric cross sections.

Beam Stress Example

Beam Cross Section

Reaction Forces

Shear Diagram

Moment Diagram

Normal Stresses - Symmetric Cross Section

Normal Stresses - Non-Symmetric Cross Section

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