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## **6. Fluid Mechanics: Fluid Statics; Fluid Dynamics**

Fluid Statics, Static Pressure/1 Two Types Of Forces Act On A Fluid Volume Element: Surface (pressure) Forces and Body (gravitational) Forces: See Figure → Pressure (a Scalar!) Is Defined As Surface Force / Area, For Example  $P_b = F_b / (d \cdot w) = P @ Z = Z_1$  Picture: KJ05 Fluid Volume  $H \cdot d \cdot w$  With ... Feb 2th, 2024

## **I. FLUID MECHANICS Fluid Mechanics**

Key Point: In The B.G. System Of Units, The Unit Used For Mass Is The Slug And Not The Lbm. And 1 Slug = 32.174 Lbm. Therefore, Be Careful Not To Use Conventional Values For Fluid Density In English Units Without Appropriate Jan 6th, 2024

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L M A B CVT Revision: December 2006 2007 Sentra CVT FLUID PFP:KLE50 Checking CVT Fluid UCS005XN FLUID LEVEL CHECK Fluid Level Should Be Checked With The Fluid Warmed Up To 50 To 80°C (122 To 176°F). 1. Check For Fluid Leakage. 2. With The Engine Warmed Up, Drive The Vehicle To Warm Up The CVT Fluid. When Ambient Temperature Is 20°C (68°F ... Feb 2th, 2024

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Turbo Machine - Definition A Turbo Machine Is A Device Where Mechanical Energy

In The Form Of Shaft Work, Is Transferred Either To Or From A Continuously Flowing Fluid By The Dynamic Action Of Rotating Blade Rows. The Interaction Between The Fluid And The Turbo Ma Apr 5th, 2024

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## **CE 241 Fluid Mechanics Code And Name: CE 241 Fluid ...**

- Engineering Fluid Mechanics: Donald F. Elger, Barbara C. William, Clayton T. Crowe & John A. Roberson, 10th Edition, Pearson, 2014 Other References: - Introductory Fluid Mechanics By Joseph Katz; Cambridge University Press, 2010 - Course Handouts: Distributed On A Regular Basis To Jan 3th, 2024

## **FLUID MECHANICS TUTORIAL No.7 FLUID FORCES**

M2 And A Gauge Pressure Of 200 KPa. Calculate The Vertical And Horizontal Forces Due To The Pressure Only. (Answers 200 N And 1500 N). 2. A Pipe Bends Through An Angle Of  $45^\circ$  In The Vertical Plane. At The Inlet It Has A Cross Sectional Area Of  $0.002 \text{ m}^2$  And A Gauge Pressure Of 800 KPa. At Exit It Has An Area Feb 6th, 2024

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With Their Axis Vertical. Water With High Head (pressure) Enters The Turbine Through The Spiral Casing Surrounding The Guide Vanes. The Water Loses A Part Of Its Pressure In The Volute (spiral Casing) To Maintain Speed. Then Water Passes Through Guide Vanes Where It Is Direc Jan 1th, 2024

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$r_1 = 1.9$  in. and  $r_2 = 7.0$  in., and the exit blade angle is  $\beta = 23^\circ$ . Assume ideal flow conditions and that the tangential velocity component,  $v_{\theta 1}$ , of the water entering the blade is zero ( $\alpha_1 = 90^\circ$ ). Determine (a) the tangential velocity component,  $v_{\theta 2}$ , at the exit, (b) the ideal head rise,  $h_A$ , and (c) the power,  $P$ , transferred to the fluid ... Jan 3th, 2024

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