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Statics Problems Solutions

Fluid statics - problems and solutions. Liquid pressure. 1. What is the difference between the 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 = $1.0 \times 10^3 \text{ kg/m}^3$, acceleration due to gravity = 10 m/s^2)
Known : Height (h) = 165 cm = 165/100 m = 1.65 ...

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For equilibrium problems, the problem-solving steps are: Read and understand the problem; Identify what you are asked to find and what is given. Identify and write down a strategy. Apply the strategy to solve for unknowns and check solutions. Create a free-body diagram and define variables. Write equations of equilibrium for the free-body diagram

statics Problem Solving

On this page I put together a collection of statics problems to help you understand static equilibrium better. The required equations and background reading to solve these problems is given on the equilibrium page. Problem # 1 A ball of mass 10 kg is hanging vertically from a string.

Statics Problems

Statics is a branch in mechanics that studies the analysis of loads on particles in static equilibrium. To put this in simple terms, statics is the study of forces on something that is not moving. The most helpful method to solving statics problems is making sure the sum of the forces equal zero.

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Problem 1.10 The Porsche's engine exerts 229 ft-lb (foot-pounds) of torque at 4600 rpm. Determine the value of the torque in N-m (Newton-meters). Solution: $229 \text{ ft-lb} \left(\frac{1 \text{ N} \cdot 0.2248 \text{ lb}}{1 \text{ m} \cdot 3.281 \text{ ft}} \right) = 310 \text{ N-m}$ Problem 1.11 The kinetic energy of the man in Active Example 1.1 is defined by $12 m v^2$, where m is his mass and v is his velocity.

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Vector Mechanics for Engineers: Statics Edition. 4 - 17. Sample Problem 4.6. A man raises a 10 kg joist, of length 4 m, by pulling on a rope. Find the tension in the rope and the reaction at A. SOLUTION: • Create a free-body diagram of the joist. Note that the joist is a 3 force body acted upon by the rope, its weight, and the reaction at A.

CHAPTER VECTOR MECHANICS FOR ENGINEERS: STATICS

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Solutions are obtained by application of point compatibility and a summation of the relative displacements of the simple bar segments. The method to solve this apply for the purpose of verification of their 'answers' are as follows: a. ... in the treatment of statics problems in any statics or

mechanics of materials textbook.

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In Physics, equilibrium is the state in which all the individual forces (and torques) exerted upon an object are balanced. This principle is applied to the analysis of objects in static equilibrium. Numerous examples are worked through on this Tutorial page.

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