Welcome back, Bill Wiecking
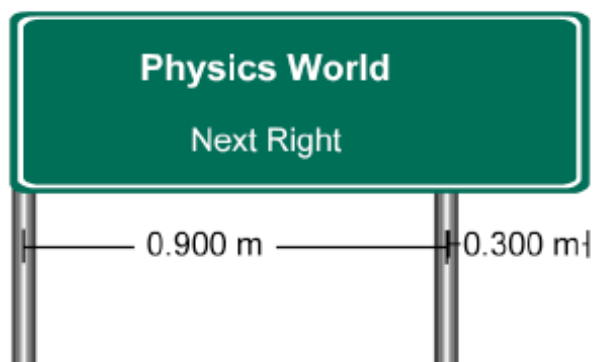
>>**Working in AP Physics B (SC651)**

ch 12 exam

Chapter 12: Static Equilibrium and Elasticity

Section 1: Static equilibrium

12.1.4 The mass of the sign shown is 28.5 kg. Find the weight supported by (a) the
(5.00) left support and (b) the right support.

(a) [   ] N
(b) [   ] N

Section 4: Sample problem: a leaning ladder

12.4.1 A ladder leans against a wall making a 55.0° angle to the floor. The ladder is
(7.00) 4.50 m long, and weighs 415 N. The wall is frictionless and so is the floor. A
horizontal wire is attached to the base of the ladder and attached to the wall.
(a) What is the tension in the wire? (b) A person who weighs 655 N stands on
a rung of the ladder located 2.00 m from its lower end. What is the new
tension in the wire?

(a) [   ] N
(b) [   ] N

Section 12: Tensile stress

12.12.1 A 85.0 kg window washer hangs down the side of a building from a rope with
(5.00) a cross-sectional area of 4.00×10^{-4} m^2. If the rope stretches 0.740 cm when it is let out 7.50 m, how much will it stretch when it is let out L m?

[   ] m

Section 13: Volume stress

12.13.1 The deepest point in the seven seas is the Marianas Trench in the Pacific
(5.00) Ocean. The pressure in the deepest parts of the Marianas Trench is 1.1×10^8 Pa. Pressure at the surface of the ocean is 1.0×10^5 Pa. If a mass of salt water has a volume of V m^3 at the surface of the ocean, what will be its volume at the bottom of the Marianas Trench?

[   ] m^3

Back to assignments list

Current server time is: 2008-02-17 16:34