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Problem 5- The uniform door has a weight  $W$  and a center of gravity at  $G$ . Determine the reactions at the hinges if the hinge at  $A$  supports only a horizontal reaction on the door, whereas the hinge at  $B$  exerts both horizontal and vertical reactions.

Given:  $W = 100 \text{ lb}$   $a = 3 \text{ ft}$   $b = 3 \text{ ft}$   $c = 0.5 \text{ ft}$   $d = 2 \text{ ft}$ . Solution:  $M_B = 0$ ;  $Wd - Ax(ab) = 0$

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$C^2 x^2 + 4x + \ln A^2 x + 21 + 4x^2$   $BD = 1 \text{ ft}$   $0 \leq L \leq 1 \text{ ft}$ .  $0 \leq 21 + 4x^2$   $dx \cdot dy \cdot dx \cdot y = x^2 = 2x$ .  $L = 1 \text{ ft}$ .  $0 \leq A \cdot 1 + ady \cdot dx \cdot b \cdot 2 \cdot dx$ . 2-31. The rubber band  $AB$  has an unstretched length of 1 ft. If it is fixed at  $B$  and attached to the surface at point  $A$ , determine the average normal strain in the band.

## Engineering Mechanics Statics Solutions Chapter 5

Prob. 5-1 Step-by-step solution: Chapter: CHA CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8 CH9 CH10 CH11 CH12 CH13 CH14 CH15 CH16 CH17  
Problem: 1P 2P 3P 4P 5P 6P 7P 8P 9P 10P 11P 12P 13P 14P 15P 16P 17P 18P 19P 20P 21P 22P 23P 24P 25P 26P 27P 28P 29P 30P 31P 32P 33P 34P 35P 36P 37P 38P 39P

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solutions for problems in chapter 5 is solved. 1fp; 1p; 1pp; 1rp; 2fp; 2p; 2pp; 2rp; 3fp; 3p; 3pp; 3rp; 4fp; 4p; 4pp; 4rp; 5fp; 5p; 5rp; 6fp; 6p; 6rp; 7fp; 7p; 7rp; 8fp; 8p; 8rp; 9fp; 9p; 9rp; 10fp; 10p; 11fp; 11p; 12fp; 12p; 13fp; 13p; 14fp; 14p; 15p; 16p; 17p;

18p; 19p; 20p; 21p; 22p; 23p; 24p; 25p; 26p; 27p; 28p; 29p; 30p; 31p; 32p; 33p; 34p; 35p; 36p; 37p; 38p; 39p; 40p; 41p; 42p; 43p; 44p; 45p; 46p; 47p; 48p; 49p; 50p; 51p; 52p; 53p; 54p; 55p; 56p; 57p; 58p; 59p; 60p; 61p; 62p; 63p; 64p ...

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Solution:  $N_A$ ,  $N_B$ ,  $N_C$  force of rollers on beam. Problem 5- Draw the free-body diagram of the smooth rod of mass  $M$  which rests inside the glass. Explain the significance of each force on the diagram. Given:  $M=20$  gm  $a=75$  mm  $b=200$  mm  $\theta=40$  deg. Solution:  $A_x$ ,  $A_y$ ,  $N_B$  force of glass on rod.

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Engineering Mechanics - Statics Chapter 5 Solution:  $M_B = 0;$

$-A_y (b + c) + M g c = 0$   $A_y = M g c / (b + c)$   $A_y = 378.386 \text{ N} +$

$F_x = 0; B_x = 0 \text{ N} + A_y - M g + 2 B_y = 0$   $F_y = 0; B_y =$

$B_x = 0$   $M g - A_y - 2 B_y = 105.107 \text{ N}$  Problem 5-36 The man has weight  $W$  and stands at the center of the plank.

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