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Engineering Mechanics - Statics Chapter 5 Solution: NA, NB force of road on car. F force of cable on car. Mg force of gravity on car. Problem 5-9 Draw the free-body diagram of the uniform bar, which has mass M and center of mass at G. The supports A, B, and C are smooth. Given:  $M = 100 \text{ kg}$   $a = 1.75 \text{ m}$   $b = 1.25 \text{ m}$   $c = 0.5 \text{ m}$   $d = 0.2 \text{ m}$   $g = 9.81 \text{ m/s}^2$  = Solution:

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## **Engineering Mechanics - Statics Chapter 5**

Explain the significance of each force on the diagram. (See Fig. 5-7b.) 1.5 m. 3 m. 1 m. 20 30 B A. D. G. C \*5-4. Draw the free-body diagram of the beam which supports the 80-kg load and is supported by the pin at A and a cable which wraps around the pulley at D. Explain the significance of each force on the diagram. (See Fig. 5-7b.) 2 m 2 ...

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Chapter 5, Solution 41. For  $y$  at  $x$ ,  $y = 2ax + by = 2ax + kb = 2ax + kb$ . Then  $\frac{1}{2} \frac{dy}{dx} = b$

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$x a = 1/2 \cdot 1/2 \cdot 2 \cdot 2$  Now and for  $0 : , 2 \cdot 2 \cdot 2$   
EL EL  $x x a y b x x x y dA y dx b dx a a =$   
 $\leq \leq = = =$  For  $( ) 1/2 \cdot 1 \cdot 2 \cdot 1 \cdot 1 : 2 \cdot 2 \cdot 2 \cdot 2$   
EL  $a b x x x a y y y a a \leq \leq = + = - + ($   
 $) 1/2 \cdot 2 \cdot 1 \cdot 1 \cdot 2 x x dA y y dx b dx a a = - =$   
 $- + ( ) ( ) ( ) 1/2 \cdot 1/2 \cdot /2 \cdot 0 \cdot /2 \cdot /2 \cdot 3/2 \cdot 2 \cdot 3/2 \cdot 0$   
 $/2 \cdot 3/2 \cdot 3/2 \cdot 3/2 \cdot 2 \cdot 2 \cdot 1$  Then  $2 \cdot 2 \cdot 2 \cdot 1 \cdot 3 \cdot 3 \cdot 2 \cdot 2$   
 $2 \cdot 3 \cdot 2 \cdot 2 \cdot 1 \cdot 1 \cdot 2 \cdot 2 \cdot 2 \cdot 2 a a a a a x x x A dA$   
 $b dx b dx a a a b x x x b x a a a b a a a a$   
 $a a b a a a \dots$

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$F_{CA} = P \cot(\theta) - csc(\theta) - \sin(\theta) + 2\cos(\theta)$

$F_{CD} = P \cot(2\theta) + P$  (C). Joint D:  $\sum F_x = 0$ ;  $F_{DA} = \frac{P}{\cos(2\theta)}$

$F_{DB} = \frac{P}{\sin(2\theta)}$  (C).

Problem 6-22. The maximum allowable tensile force in the members of the truss is  $T_{max}$ , and the maximum allowable compressive force is  $C_{max}$ .

## Engineering Mechanics - Statics Chapter 6

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Engineering Mechanics - Statics Chapter 5  
 $a = 4 \text{ ft}$   $b = 8 \text{ ft}$   $x_1 = 1.5 \text{ ft}$   $x_2 = 7.5 \text{ ft}$   
Solution: The maximum occurs when  $x = x_2$   
 $\Sigma MA = 0; -F x_2 + B x a = 0$   $Bx = F$

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$x_2 = 3.462 \times 10^3 \text{ lb}$   $\rightarrow \sum F_x = 0;$   
 $\uparrow \sum F_y = 0; F_B = Ax - B_x = 0 \quad B_y - F = 0$   
 $2 B_x + B_y = Ax = B_x \quad B_y = F$   
 $2.3 Ax = 1.462 \times 10^3 \text{ lb}$   $B_y = 780 \text{ lb}$   $F_B = 1.657$   
kip Problem 5-32 ...

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