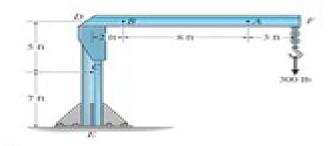
Autom

Alter-

Author.

#### 1 - 100.

The boom DF of the jib crane and the column DE have a uniform weight of 50 lb/ft. If the supported load is 300 lb, determine the resultant internal loadings in the crane on cross sections at points A. B. and C.



#### SOLUTION

Equations of Equilibrium: For point A

$$\pm \Sigma F_s = 0;$$
  $N_A = 0$   
  $+ \uparrow \Sigma F_s = 0;$   $V_A - 150 - 300 = 0$   
  $V_A = 450 \text{ lb}$ 

$$V_A = 450 \text{ lb}$$
 Ans.  
 $\zeta + \Sigma M_A = 0;$   $-M_A - 150(1.5) - 300(3) = 0$   
 $M_A = -1125 \text{ lb} \cdot \Omega = -1.125 \text{ kip} \cdot \Omega$  Ans.

Negative sign indicates that  $M_A$  acts in the opposite direction to that shown on FBD.

Equations of Equilibrium: For point B

$$\pm \Sigma F_s = 0;$$
  $N_B = 0$  Ans.  
  $+\uparrow \Sigma F_s = 0;$   $V_B - 580 - 300 = 0$   $V_B = 880 \text{ fb}$  Ans.

$$\zeta + \Sigma M_R = 0;$$
  $-M_R - 580(5.5) - 300(11) = 0$   
 $M_R = -6325 \text{ fb} \cdot 0;$   $= -6.325 \text{ kip} \cdot 0;$  App.

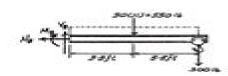
Negative sign indicates that  $M_0$  acts in the opposite direction to that shown on FBD.

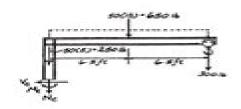
Equations of Equilibrium: For point C

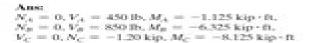
$$\pm \Sigma F_c = 0;$$
  $V_C = 0$  Ans.   
  $+\uparrow \Sigma F_c = 0;$   $-N_C - 250 - 650 - 300 = 0$   $N_C = -1200 \text{ B} = -1.20 \text{ kip}$  Ans.   
  $\zeta + \Sigma M_C = 0;$   $-M_C - 650(6.5) - 300(13) = 0$ 

Negative signs indicate that  $N_C$  and  $M_C$  act in the opposite direction to that shown on FBD.

 $M_{\rm c} = -8125 \, \mathrm{Bs} \cdot \mathrm{ft} = -8.125 \, \mathrm{kip} \cdot \mathrm{ft}$ 







# **Mechanics Of Materials Solutions Chapter 12**

K. Sathish Kumar, R. Naren Shankar

## **Mechanics Of Materials Solutions Chapter 12:**

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Black Holes and Time Warps Kip S Thorne,1994 In this masterfully written and brilliantly informed work Dr Rhorne the Feynman Professor of Theoretical Physics at Caltech leads readers through an elegant always human tapestry of interlocking themes answering the great question what principles control our universe and why do physicists think they know what they know Features an introduction by Stephen Hawking Applications of Engineering Materials Jing Long Bu,Peng Cheng Wang,Li Qun Ai,Xiao Ming Sang,Yun Gang Li,2011-07-04 Selected peer reviewed papers from the 2011 International Conference on Advanced Engineering Materials and Technology AEMT 2011 July 29 31 2011 Sanya China

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