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~~Statics Chapter 5 Problem F5-10 Statics Hibbeler 12th~~
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Chapter 5.5 - Free-Body Diagrams **Statics - Chapter 3 (Sub-Chapter 3.1 - 3.3) - Equilibrium of a Particle (2D)** Chapter
5.2 - Free Body-Diagrams 5.7 Constraints and Statical
Determinacy **Statics Example: 2D Rigid Body Equilibrium**
Statics Lecture 19: Rigid Body Equilibrium -- 2D supports
**Chapter 5.6 - Equations of Equilibrium Chapter 5.4 - Two-
and Three-Force Members ME 273: Statics: Chapter 1**
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12th (Chapter 5) Problem F5-2 Statics Hibbeler 12th
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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: $W=100$ lb $a=3$ ft $b=3$ ft $c=0.5$ ft $d=2$ ft.

Solution: $\sum M_B = 0$; $Wd - A_x(a+b) = 0$

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****EDIT**** In the F_y equation I had $F_c d$ as negative, please change that to positive!! Determine the horizontal and vertical

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components of reaction at the pin A...

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Solution Manual Statics Hibbeler Chapter 5 12th •5-1. Draw the free-body diagram of the 50-kg paper roll which has a center of mass at G and rests on the smooth blade of... •5-9. Draw the free-body diagram of the bar, which has a negligible

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thickness and smooth points of contact at A, B, and C. •5–13.

...

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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 m $b = 1.25 \text{ m}$ $c = 0.5 \text{ m}$ $d = 0.2 \text{ m}$ $g = 9.81 \text{ m/s}^2 =$

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solution Equations of Equilibrium: From the free-body diagram of the gate, Fig.a, B_y and A_x can be obtained by writing the force equation of equilibrium along the y axis and the moment equation of equilibrium about point B.

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Explain the significance of each force acting on the diagram. (See Fig. 5–7b.) B. 30 35 mm. A. G. 5–2. Draw the free-body diagram of member AB, which is supported by a roller at A and a pin at B. Explain the significance of each force on the diagram. (See Fig. 5–7b.) A. B. 8 ft 30 4 ft 3 ft. 1312 800 lb ft 5. 390 lb

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7–5. The pliers are used to grip the tube at B. If a force of 20 lb is applied to the handles, determine the internal shear force and moment at point C. Assume the jaws of the pliers exert only normal forces on the tube. SOLUTION. Segment BC:

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Ans. a. $MC=133 \text{ lb}\cdot\text{in}$. Ans. $+\circlearrowleft MC=0$; $-MC+133.3(1)=0$.
 $VC=-133 \text{ lb}$ $+Q\circlearrowleft F_y=0$; $VC+133.3=0$. $RB=133.3 \text{ lb}$

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The pulley has weight W . Given: $r=3 \text{ in}$ $d=0.5 \text{ in}$ $W=18 \text{ lb}$ F_1
 $=5 \text{ lb}$ $F_2 = 5.5 \text{ lb}$. Solution: $+\circlearrowleft F_y = 0$; RW F_1 $F_2 = 0$

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$R_W F = +1 + F_2 R = 28.5 \text{ lb}$ $\sum M_O = 0$; $\sum F_x = 0$; $\sum F_y = 0$
 $r_f = r \sin(\theta)$ $r_f = 0.05263 \text{ in}$ $r_f = 2 \text{ dsin}(\theta)$ $\theta = \arcsin\left(\frac{r_f}{2d}\right)$
 $\theta = 12.15 \text{ deg}$. Also, $\sum M = 0$.

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The truss is supported by a pin at A and a roller at B.
 Determine the support reactions.

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Solution: Initial Guesses $F_{AB} = 1 \text{ lb}$ $F_{AD} = 1 \text{ lb}$ $F_{DC} = 1 \text{ lb}$ $F_{BC} = 1 \text{ lb}$
 $F_{BD} = 1 \text{ lb}$ $F_{DE} = 1 \text{ lb}$ Given Joint A: $F_{AB} + F_{AD} \cos(\theta) = 0$ $F_{AD} \sin(\theta) = 0$ Joint B: $F_{BC} - F_{AB} = 0$ $F_{BD} = 0$
 Joint D: $F_{DC} - F_{AD} \cos(\theta) + F_{DE} = 0$ $F_{DC} + F_{AD} \sin(\theta) + F_{BD} = 0$

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????? = Find()FAB,FAD,FBC,FBD,FDC,FDE 440 Problem 6-3 © 2007 R. C. Hibbeler.

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Chapter 5. Preview tekst. Problem 6-Determine the force in each member of the truss and state if the members are in tension or. compression. Units Used: kN 10. 3 = N. Given: P 1 =7kN. P 2 =7kN. Solution:

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