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**...**

**Statics is a branch in mechanics that studies the analysis of of loads on particles in static equilibrium. To put this in simple terms, statics is the study of forces on something that is not moving. The most helpful method to solving statics problems is making sure the**

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sum of the forces equal zero.

[Statics FE review 032712 -  
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**Vector Mechanics for  
Engineers: Statics Edition. 4 -  
17. Sample Problem 4.6. A  
man raises a 10 kg joist, of  
length 4 m, by pulling on a  
rope. Find the tension in the  
rope and the reaction at . A.  
SOLUTION: • Create a free-  
body diagram of the joist.  
Note that the joist is a 3 force  
body acted upon by the rope,  
its weight, and the reaction at  
. A.**

[Statics 7-1](#)

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**This is a statics and dynamics text for second or third year engineering students with an emphasis on vectors, free body diagrams, the basic momentum balance principles, and the utility of computation. Students often start a course like this thinking of mechanics reasoning as being vague and complicated. Our aim is to replace this**

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**Engineering Statics - MECH 223 Review Problems for Midterm 1 Set 2 1. The unit consisting of two rigidly connected pulleys is acted on by a couple and two tension forces, the latter exerted by belts which are securely wrapped onto the two pulley surfaces (as shown in the drawing). Determine the equivalent force-couple system at the pulley axis O.**

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- 1. Draw a free-body diagram of the entire structure and determine the reactions (if  $r = 3$ ).**
- 2. Draw free-body diagrams for all members (assume tensile forces in all members) and all joints.**
- 3. Set up the equilibrium equations for each joint and**

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are measured, R 98 N 35 •  
Graphical solution - A triangle  
is drawn with . P . and . Q

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### **Sample Problem 8.3**

**SOLUTION:** •When  $W$  is placed at minimum  $x$ , the bracket is about to slip and friction forces in upper and lower collars are at maximum value.

•Apply conditions for static equilibrium to find minimum  $x$ . School of Mechanical Engineering8 -13 The moveable bracket shown may be placed at any height on the 3-cm diameter pipe.

## **[Mechanics of Materials](#)**

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**The first step in solving 3D equilibrium problems is to draw a free-body diagram of the body: Support Reactions should be studied. SUPPORT REACTIONS IN 3-D (Table 5-2) ... unknown forces are present simplifies the solution. Those forces do not appear in the moment equation since they pass through the point. Thus, they do not appear in the equation.**

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