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Chapter 2 - Force Vectors

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Statics Lecture 14: Problem

2.1 Finding the Magnitude

and Direction of the

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Resultant Force Statics

Example: 2D Rigid Body

Equilibrium

Statics - Free Body Diagram
Resultant of Forces problems
RC Hibbeler book Engineering
mechanics STATICS | Chapter
2 | P 2-1 to P 2-8 Solution

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| Rectangular Components |
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~~Fluid Statics 1~~ STATICS |
Chapter 2 | P 2.16 to P 2.18
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How to solve 3D statics
problems English - Truss
Analysis Using Method of
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*Joints Part 1 of 2 Statics -
The Recipe for Solving
Statics Problems Static
Equilibrium: concept
Resultant of Three
Concurrent Coplanar Forces*

How to Calculate Support
Reactions of a Simply

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Supported Beam with a Point

Load Statics - Moment in 2D

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~~Static Equilibrium~~ STATICS /

Chapter 2 | P 2-9 to P 2-12

| Rectangular Components |

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~~Method of Sections~~

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~~2D Equilibrium | Chapter 3 |~~

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~~Cartesian Vectors — Examples~~

~~(Statics 2.4 2.6)~~

Introduction to Statics

(Statics 1) Engineering

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Mechanics problems - 1

Statics Lecture 19: Rigid
Body Equilibrium -- 2D

supports *Force Vectors* -

Example 1 (Statics 2.1-2.3)

Engineering Mechanics

Statics: Chapter 1:

Solutions to Problems 1.1 to

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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

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that is not moving. The most helpful method to solving statics problems is making sure the sum of the forces equal zero.

~~Statics | Problems, Videos,
and Resources~~

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Statics. This free online statics course teaches how to assess and solve 2D and 3D statically determinate problems. The course consists of 73 tutorials which cover the material of a typical statics course

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(mechanics I) at the university level or AP physics. In order to gain a comprehensive understanding of the subject, you should start at the top and work your way down the list.

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If the problem is not solved directly from the physics, then, • use the method of joints to solve for the unknowns if they are near a known force that can be used

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in the solution. • use the method of sections to solve for the unknowns if they are not near a known force that can be used in the solution.

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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

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Problem 1.10 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.

~~CHAPTER VECTOR MECHANICS FOR~~

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1 - General Principles -
Problems - Page 15 1
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Engineering Statics - MECH
223 Review Problems for
Midterm 1 Set 2 1. The unit
consisting of two rigidly

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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

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force-couple system at the pulley axis O.

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Review Problems for Midterm
1...~~

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2017. Fall 2016. Spring
2015. Fall 2015. Fall 2014.
Fall 2012. Solution, Fall
2012 Winter 2012. Solution,
Winter ...

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~~Computer . . .~~ Problems And Solutions

using "Statics" i.e. Drawing
FBDs and writing equilibrium
equations. Determinate :

When, not all the unknowns
can be found using Statics.

... $V_1 = V_2 < U \Rightarrow$

Infinitely many solutions

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possible (ii) $V_1 < V_2 \Rightarrow$

No solution exists Note : In this procedure, it is better not to reduce the number of unknowns or number of equations by using

~~Chapter 6: Analysis of~~

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Structures And College of
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In this practice problem,
the vectors are rigged so
that the alternate solution
is easier than the default
solution. The graphical
method for addition of

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vectors requires placing them head to tail. The sum would be the resultant vector connecting the tail of the first vector to the head of the last.

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lectures can be found by
searching 'mecha...

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~~solving problems...~~

Example Solution: FBDs A_x
 $= 4.32 \text{ kN}$ $A_y = 3.92 \text{ kN}$ $D = 4.32$
 kN CE is a two-force member
Direction of the line

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Joining the two points of force application determines the direction of the forces acting on a two-force member. Shape of the member is not important. ME101 - Division III Kaustubh Dasgupta 11

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~~Frames and Machines~~

MEM202 Engineering Mechanics

- Statics MEM 7.2 Plane

Trusses Method of Joints 1.

Draw a free-body diagram of
the entire structure and
determine the reactions (if

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$r = 3$). 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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I didn't do as well on the last statics test as I'd have liked. I really want to work through some problems and make sure that I'm doing them right (Because I'm obviously not) but I can't

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find any good solutions.
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