

### Vector Mechanics For Engineers Chapter 3 Statics 8th Edition

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Eighth Vector Mechanics for Engineers: Dynamics Edition 9 - 3 Introduction • Previously considered distributed forces which were proportional to the area or volume over which they act. - The resultant was obtained by summing or integrating over the areas or volumes. - The moment of the resultant about any axis was determined by

#### CHAPTER VECTOR MECHANICS FOR ENGINEERS: STATICS

Vector Mechanics for Engineers: Statics Introduction 4 - 4 • The necessary and sufficient conditions for the static equilibrium of a body are that the forces sum to zero, and the moment about any point sum to zero:  $\sum \mathbf{F} = 0$   $\sum \mathbf{M}_O = \sum (\mathbf{r} \times \mathbf{F}) = 0$  ! ! ! • Equilibrium analysis can be applied to two-dimensional or three-

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Vector Mechanics for Engineers: Statics Edition. 4 - 16. Equilibrium of a Three-Force Body • Consider a rigid body subjected to forces acting at only 3 points. • Assuming that their lines of action intersect, the moment of . F . 1 . and . F . 2 . about the point of intersection represented by . D . is zero. • Since the rigid body is in equilibrium, the sum of the

#### CHAPTER VECTOR MECHANICS FOR ENGINEERS: STATICS

PROBLEM 11.2 The motion of a particle is defined by the relation  $x = t^2 - 9t + 12$  where  $x$  and  $t$  are expressed in feet and seconds, respectively. Determine the time, the position, and the acceleration of the particle when  $v = 0$ . SOLUTION

#### CHAPTER 11

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Vector mechanics for engineers statics 7th chapter 5. 1. PROBLEM 5.1 Locate the centroid of the plane area shown.SOLUTION A, in 2 x ., in. y ., in. xA, in 3 yA, in 3 1 8 x 6 = 48 -4 9 -192 432 2 16 x 12 = 192 8 6 1536 1152 2 240 1344 1584 2 xA 1344 in 3Then X = = or X = 5.60 in. 2A 240 in 2 2 yA 1584 in 3and Y = = or Y = 6.60 in. 2A 240 in 2. 2.

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And  $\mathbf{O} \mathbf{N} \mathbf{P}$  2 D D ) direction of the

#### CHAPTER 2

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#### Three horizontal forces are applied as shown to a vertical ...

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