

# **Chapter Vector Mechanics For Engineers 13dynamics**

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Mechanics for Engineers: Dynamics Edition 9 - 4  
Moment of Inertia of an Area • Consider distributed  
forces whose magnitudes are proportional to the  
elemental areas on which they act and also vary  
linearly with the distance of from a given  
axis. CHAPTER VECTOR MECHANICS FOR ENGINEERS:  
STATICS Vector Mechanics for Engineers: Statics  
Edition. 4 - 15. Equilibrium of a Two-Force Body •  
Consider a plate subjected to two forces  $F_1$  and  $F_2$  •  
For static equilibrium, the sum of moments about  
A must be zero. The moment of  $F_2$  must be zero.

It follows that the line of action of  $F_2$  must pass through  $A$ . • Similarly, the line of action of  $F_1$  must pass through  $B$ . • CHAPTER VECTOR MECHANICS FOR ENGINEERS: STATICS Eighth Edition Vector Mechanics for Engineers: Statics Edition 8 - 9 Problems Involving Dry Friction • All applied forces known • Coefficient of static friction is known • Determine whether body will remain at rest or slide • All applied forces known • Motion is impending • Determine value of coefficient of static friction. VECTOR MECHANICS FOR ENGINEERS: STATICS Start studying Vector Mechanics for Engineers: Statics Chapter 1 Introduction Page 1. Learn vocabulary, terms, and more with flashcards, games, and other study tools. Vector Mechanics for Engineers:

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detail. (Solution Manual) Ferdinand P. Beer, E. Russell Johnston ...

- Differential vector is the  $dr$  particle displacement.
- Work of the force is  $\int_C \mathbf{F} \cdot d\mathbf{r} = \int_C F_x dx + F_y dy + F_z dz = \int_C F ds \cos\alpha$
- Work is a scalar quantity, i.e., it has magnitude and sign but not direction.
- Dimensions of work are Units are length  $\times$  force.  $1 \text{ J (joule)} = (1 \text{ N})(1 \text{ m})$   $1 \text{ ft}\cdot\text{lb} = 1.356 \text{ J}$

CHAPTER VECTOR MECHANICS FOR ENGINEERS:  
13DYNAMICS Edition Eighth Vector Mechanics for Engineers: Dynamics Sample Problem 15.8

- The angular accelerations are determined by simultaneously solving the component equations for  $\mathbf{r}$

$$\mathbf{r} \cdot \mathbf{a}_D = \mathbf{a}_B + \mathbf{a}_D \quad \mathbf{r} \cdot \mathbf{r} = r^2 \quad \mathbf{r} \cdot \mathbf{a}_D = \alpha_{DE} \times \mathbf{r}_D - \omega_{DE} r_D \quad \mathbf{r} \cdot \mathbf{r} = \alpha_{DE} k \times (-17i + 17j) - (11.29) (-17i + 17j)$$

$$\begin{aligned} & ) 2 r r r r = -17\alpha DE i - 17\alpha DE j + 2170i - 2170 j r r r \\ & 2 r 2 r r a_B = \alpha AB \times r_B - \omega AB r_B = 0 - (20) (8i + 14 \\ & j) r r = -3200i + 5600 j r r r 2 r a_{D B} = \alpha BD \times r_B D \end{aligned}$$

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