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Consider rotation of rigid body about a fixed axis  $AA'$ . Velocity vector of the particle P is tangent to the path with magnitude  $v$   
 $dr/dt = v = ds/dt$   $(\hat{r}, \hat{\theta}, \hat{z})$   $(\hat{r}, \hat{\theta}, \hat{z})$   $(\hat{r}, \hat{\theta}, \hat{z})$   $\lim_{\Delta t \rightarrow 0} \frac{\Delta \theta}{\Delta t} = \dot{\theta}$   $\lim_{\Delta t \rightarrow 0} \frac{\Delta s}{\Delta t} = \dot{s}$   $\lim_{\Delta t \rightarrow 0} \frac{\Delta r}{\Delta t} = \dot{r}$   $\lim_{\Delta t \rightarrow 0} \frac{\Delta z}{\Delta t} = \dot{z}$

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Seventh Vector Mechanics for Engineers: Dynamics Edition 17 - 3 Introduction  $\hat{\epsilon}$  Method of work and energy and the method of impulse and momentum will be used to analyze the plane motion of rigid bodies and systems of rigid bodies.  $\hat{\epsilon}$  Principle of work and energy is well suited to the solution of problems involving displacements and velocities.

## **CHAPTER VECTOR MECHANICS FOR ENGINEERS: 17 DYNAMICS**

Ferdinand P. Beer & E. Russell Johnston Jr. Vector Mechanics for Engineers ( Dynamics ) McGraw-Hill Book Company Inc. 1977 ( N.B.; book page numbering follows on from companion volume 'Statics' ) Acrobat 7 Pdf 127.0 Mb.

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Vector Mechanics for Engineers: Statics dition 7- 22 Sample Problem 7.6  $\hat{\epsilon}$  The change in moment between A and B is equal to area under shear curve between the points. The parabolic shear curve results in a cubic moment curve.  $\hat{\epsilon}$  The change in moment between B and C is equal

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Vector Mechanics for Engineers: Dynamics dition Dynamic Equilibrium 12 - 8  $\hat{e}_i$  Alternate expression of Newton's second law, ma inertial vector  $F$  ma  $0 \hat{e}_i$  &  $\hat{e}_i$   $\hat{e}_i$  With the inclusion of the inertial vector, the system of forces acting on the particle is equivalent to zero. The particle is in dynamic equilibrium.  $\hat{e}_i$  Methods developed for ...

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