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Seventh Vector Mechanics for Engineers: Dynamics Edition 15 - 5 Rotation About a Fixed Axis. Velocity  $\hat{v}$   
Consider rotation of rigid body about a fixed axis  $AA\hat{e}_3^T$   $\hat{e}_3$  Velocity vector of the particle P is tangent to the path with magnitude  $v$   $dr/dt = v = ds/dt$   $(\hat{e}_1, \hat{e}_2, \hat{e}_3)$ ,  $\hat{r}_P = r\hat{e}_1 + z\hat{e}_3$ ,  $\hat{v} = \dot{\theta}\hat{e}_3 \times \hat{r}_P$ ,  $\lim_{\theta \rightarrow 0} \sin \theta = \theta$   $r = r$   $dt = ds/v$   $BP = r\hat{e}_1 + z\hat{e}_3$

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Vector Mechanics for Engineers: Statics dition 7- 22 Sample Problem 7.6  $\hat{=}$  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.  $\hat{=}$  The change in moment between B and C is equal

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