

EXAMPLE 16.19

At the instant $\theta = 60^\circ$, the rod in Fig. 16-33 has an angular velocity of 1 rad/s and an angular acceleration of 2 rad/s^2 . At this same instant, collar C travels outward along the rod such that when $x = 0.2 \text{ m}$ the velocity is 2 m/s and the acceleration is 3 m/s^2 , both measured relative to the rod. Determine the Coriolis acceleration and the measured velocity and acceleration of the collar at this instant.

SOLUTION

Coordinate Axes. The origin of both coordinate systems is located at point O , Fig. 16-33. Since motion of the collar is reported relative to the rod, the moving x, y, z frame of reference is attached to the rod.

Kinematic Equations.

$$\mathbf{v}_C = \mathbf{v}_O + \boldsymbol{\Omega} \times \mathbf{r}_{C/O} + (\mathbf{v}_{C/O})_{rel} \quad (1)$$

$$\mathbf{a}_C = \mathbf{a}_O + \dot{\boldsymbol{\Omega}} \times \mathbf{r}_{C/O} + \boldsymbol{\Omega} \times (\boldsymbol{\Omega} \times \mathbf{r}_{C/O}) + 2\boldsymbol{\Omega} \times (\mathbf{v}_{C/O})_{rel} + (\mathbf{a}_{C/O})_{rel} \quad (2)$$

It will be simpler to express the data in terms of $\mathbf{i}, \mathbf{j}, \mathbf{k}$ component vectors rather than $\mathbf{I}, \mathbf{J}, \mathbf{K}$ components. Hence,

Motion of moving reference	Motion of C with respect to moving reference
$\mathbf{v}_O = \mathbf{0}$	$\mathbf{r}_{C/O} = \{0.2\mathbf{i}\} \text{ m}$
$\mathbf{a}_O = \mathbf{0}$	$(\mathbf{v}_{C/O})_{rel} = \{2\mathbf{i}\} \text{ m/s}$
$\boldsymbol{\Omega} = \{-3\mathbf{k}\} \text{ rad/s}$	$(\mathbf{a}_{C/O})_{rel} = \{3\mathbf{i}\} \text{ m/s}^2$
$\dot{\boldsymbol{\Omega}} = \{-2\mathbf{k}\} \text{ rad/s}^2$	

The Coriolis acceleration is defined as

$$\mathbf{a}_{Cor} = 2\boldsymbol{\Omega} \times (\mathbf{v}_{C/O})_{rel} = 2(-3\mathbf{k}) \times (2\mathbf{i}) = \{-12\mathbf{j}\} \text{ m/s}^2 \quad \text{Ans.}$$

This vector is shown dashed in Fig. 16-33. If desired, it may be resolved into $\mathbf{i}, \mathbf{j}$ components acting along the X and Y axes, respectively.

The velocity and acceleration of the collar are determined by substituting the data into Eqs. 1 and 2 and evaluating the cross products, which yields

$$\mathbf{v}_C = \mathbf{v}_O + \boldsymbol{\Omega} \times \mathbf{r}_{C/O} + (\mathbf{v}_{C/O})_{rel}$$

$$= \mathbf{0} + (-3\mathbf{k}) \times (0.2\mathbf{i}) + 2\mathbf{i}$$

$$= \{2\mathbf{i} - 0.6\mathbf{j}\} \text{ m/s} \quad \text{Ans.}$$

$$\mathbf{a}_C = \mathbf{a}_O + \dot{\boldsymbol{\Omega}} \times \mathbf{r}_{C/O} + \boldsymbol{\Omega} \times (\boldsymbol{\Omega} \times \mathbf{r}_{C/O}) + 2\boldsymbol{\Omega} \times (\mathbf{v}_{C/O})_{rel} + (\mathbf{a}_{C/O})_{rel}$$

$$= \mathbf{0} + (-2\mathbf{k}) \times (0.2\mathbf{i}) + (-3\mathbf{k}) \times [(-3\mathbf{k}) \times (0.2\mathbf{i})] + 2(-3\mathbf{k}) \times (2\mathbf{i}) + 3\mathbf{i}$$

$$= \mathbf{0} - 0.4\mathbf{j} - 1.80\mathbf{i} - 12\mathbf{j} + 3\mathbf{i}$$

$$= \{1.20\mathbf{i} - 12.4\mathbf{j}\} \text{ m/s}^2 \quad \text{Ans.}$$

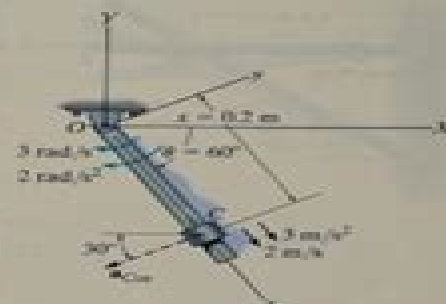


Fig. 16-33

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