MAMPLE 16.19

gift instant $\theta=60^\circ$, the rod in Fig. 16-33 has an angular velocity of gate and an angular acceleration of 2 rad/s2. At this same instant, the C travels outward along the rod such that when x = 0.2 m the gody is 2 m/s and the acceleration is 3 m/s2, both measured giver to the rod. Determine the Coriolis acceleration and the doory and acceleration of the collar at this instant.

SOLUTION

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

Enematic Equations.

$$\begin{aligned} & \mathbf{r}_{C} = \mathbf{r}_{O} + \Omega \times \mathbf{r}_{C/O} + (\mathbf{v}_{C/O})_{cyc} \\ & \mathbf{a}_{C} = \mathbf{a}_{O} + \tilde{\Omega} \times \mathbf{r}_{C/O} + \Omega \times (\Omega \times \mathbf{r}_{C/O}) + 2\Omega \times (\mathbf{v}_{C/O})_{cyc} + (\mathbf{a}_{C/O})_{cyc} \end{aligned}$$

h will be simpler to express the data in terms of i. J. k component sators rather than L.J. K commonents. Hence,

Motion of moving reference	Motion of C with respect to moving reference
$\mathbf{x}_O = 0$	$r_{C/O} = \{0.2i\} \text{ m}$
$\mathbf{a}_O = 0$	$(v_{C/O})_{sys} = \{2i\} \text{ m/s}$
$\Omega = \{-3k\} \text{ rad/s}$	$(a_{C/O})_{sys} = \{3i\} \text{ m/s}^2$
$\Omega = \{-2k\} \text{ rad/s}^2$	

The Coriolis acceleration is defined as

 $a_{Cos} = 2\Omega \times (\mathbf{v}_{C,O})_{sys} = 2(-3\mathbf{k}) \times (2\mathbf{i}) = \{-12\mathbf{j}\} \text{ m/s}^2$ Ans. his vector is shown dashed in Fig. 16-33. If desired, it may be resolved

The LJ components acting along the X and Y axes, respectively. The velocity and acceleration of the collar are determined by descripting the data into Eqs. 1 and 2 and evaluating the cross products. which yields

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

= $\mathbf{0} + (-3\mathbf{k}) \times (0.2\mathbf{i}) + 2\mathbf{i}$
= $(2\mathbf{v}_C - 0.00)$

= {2i - 0.6j} m/s $\mathbf{a}_{C} = \mathbf{a}_{O} + \mathbf{\Omega} \times \mathbf{r}_{C,O} + \mathbf{\Omega} \times (\mathbf{\Omega} \times \mathbf{r}_{C,O}) + 2\mathbf{\Omega} \times (\mathbf{v}_{C,O})_{OC} + (\mathbf{a}_{C,O})_{OC}$

$$= a_0 + \hat{\Omega} \times r_{C/O} + \hat{\Omega} \times (\hat{\Omega} \times r_{C/O}) + 211 \times (0.26) + 2(-3k) \times (28) + 36$$
$$= 0 + (-2k) \times (0.26) + (-3k) \times \{(-3k) \times (0.26)\} + 2(-3k) \times (28) + 36$$

" {1.204 - 12.4j} m/s"

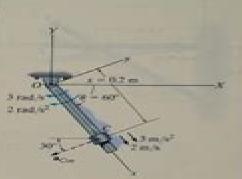


Fig. 16-33

ALTERNA

A.res.

16

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