

# Solution manual for Engineering Mechanics: Dynamics Costanzo Plesha Gray 2nd edition

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## Chapter

1.2  $(r_{B/A})_C$

1.4  $\vec{r}_{B/A}|_{xyz \text{ system}}$

$\vec{r}_{B/A}|_{pq \text{ system}}$

$|\vec{r}_{B/A}|_{xyz \text{ system}} = 4.123 \text{ ft}$

1.6  $\vec{a} = (79.68 \hat{i} + 7.190 \hat{j}) \text{ ft/s}^2$

1.8  $\theta = 3.229 \text{ rad}$

$\phi = 0.08731 \text{ rad}$

1.10  $v_x = 504.6 \text{ ft/s}$  and  $v_y = -353.3 \text{ ft/s}$

1.12  $\phi = 101.1^\circ$

1.14  $x_{P2} = -0.7679 \text{ ft}$  and  $y_{P2} = 5.330 \text{ ft}$

1.16  $\vec{a}_A = -(20.02 \hat{i} + 12.81 \hat{j}) \text{ ft/s}^2$  and  $\vec{a}_B = (-1.414 \hat{i} + 4.243 \hat{j}) \text{ ft/s}^2$

1.18  $r = 26.36 \text{ mm}$

1.20  $[I_{xx}] = [I_{yy}] = [I_{zz}] = M L^2$

Units of  $I_{xx}$ ,  $I_{yy}$ , and  $I_{zz}$  in the SI system:  $\text{kg} \cdot \text{m}^2$ .

Units of  $I_{xx}$ ,  $I_{yy}$ , and  $I_{zz}$  in the U.S. Customary system:  $\text{slug} \cdot \text{ft}^2 = \text{lb} \cdot \text{s}^2 / \text{ft}$ .

1.22  Concept problem.

1.24 the units of  $E$  are  $\text{kg}/(\text{m} \cdot \text{s}^2)$ .

## Chapter 2

2.2  Concept Problem

2.4  Concept Problem

# Dynamics 2e Costanzo Solutions Manual

**F Rizvi**



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