

## Example Problem - Le 22

**7.27** Arm BC has a mass of 12 kg and the mass moment of inertia about its center of mass is  $3 \text{ kg}\cdot\text{m}^2$ . If arm AB has a constant clockwise angular velocity of  $2 \text{ rad/s}$  and arm BC has a counterclockwise angular velocity of  $2 \text{ rad/s}$  and a clockwise angular acceleration of  $4 \text{ rad/s}^2$ ,

determine:

- the couple exerted on arm BC at B,
  - the reaction at B
- (taken from *Dynamics, 2nd Edition* by Bedford & Fowler)

