

Example Problem - Le 23

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 rad/s and arm BC has a counterclockwise angular velocity of 2 rad/s and a clockwise angular acceleration of 4 rad/s^2 ,

determine:

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

