

3-11. Gear A starts from rest with a normally distributed angular acceleration $\alpha_A \sim N(4, 0.4^2)$ rad/s². If $r_A = 0.2$ m and $r_B = 0.5$ m, determine the angular velocity and angular displacement of gear B when $t = 3$ s.

Solutions: $\omega_B \sim N(4.8, 0.48^2)$ rad/s, $\theta_B \sim N(7.2, 0.72^2)$ rad.

