

| Solving for Angular Rotation with Uniform <b>Angular</b> Acceleration ( $\alpha$ ; $\omega$ ; $\theta_f = 0$ ) |                                               |                                                        |                                                  |
|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|--------------------------------------------------|
| $\theta_f = \theta_i + \omega_i t + \frac{1}{2} \alpha t^2$                                                    | $\theta_f = \frac{(\omega_f + \omega_i)t}{2}$ | $\theta_f = \frac{(\omega_f^2 - \omega_i^2)}{2\alpha}$ | $\theta_f = \omega_f t - \frac{1}{2} \alpha t^2$ |

### Velocity Kinematics - Angular

The instantaneous angular velocity at a time (t) is the derivative of the position.

$$\theta(t) = \frac{d\theta}{dt}; \text{ Units} \rightarrow \frac{\text{rad}}{\text{s}}$$

The average angular velocity of an object can be found by dividing the change in radians over a specific time interval.

$$\text{Average velocity} = \frac{\Delta\theta}{\Delta t}$$

On the PE exam, you can use the following equations to help you solve any kinematics problems for the angular velocity with uniform acceleration.

| Solving for Angular Velocity with Uniform <b>Angular</b> Acceleration ( $\alpha$ ; $\omega$ ; $\theta_f = 0$ ) |                                             |                                                        |                                                  |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------|--------------------------------------------------|
| $\omega_f = \omega_i + \alpha t$                                                                               | $\omega_f = \frac{2\theta_f}{t} - \omega_i$ | $\omega_f = \frac{\theta_f}{t} + \frac{1}{2} \alpha t$ | $\omega_f = \sqrt{\omega_i^2 + 2\alpha\theta_f}$ |

### Acceleration Kinematics - Angular

The instantaneous angular acceleration at a time (t) is the derivative of the angular velocity or the second derivative of the position.

$$\alpha(t) = \frac{d\omega}{dt} = \frac{d^2\theta}{dt^2}; \text{ Units} \rightarrow \left[ \frac{\text{rad}}{\text{s}^2} \right]$$

The average angular acceleration of an object can be found by dividing the change in angular velocity over a specific time interval.

$$\text{Average acceleration} = \frac{\Delta\omega}{\Delta t}$$

If the object is increasing in speed (accelerating), then acceleration will be positive and if the object is decreasing in speed (decelerating), then acceleration will be negative. If the object is moving at constant velocity then acceleration will be equal to 0.

| Solving for Angular Acceleration with Uniform <b>Angular</b> Acceleration ( $\alpha$ ; $\omega$ ; $\theta_f = 0$ ) |                                          |                                                 |                                                 |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| $\alpha = \frac{(\omega_f^2 - \omega_i^2)}{2\theta_f}$                                                             | $\alpha = \frac{\omega_f - \omega_i}{t}$ | $\alpha = \frac{2(\theta_f - \omega_i t)}{t^2}$ | $\alpha = \frac{2(\omega_f t - \theta_f)}{t^2}$ |

# Mechanical Engineering Pe Exam Study Guide V10

**RD Boyd**



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