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8.3.2 Angular Acceleration From A Torque A Torque,  $\tau$ , Arising From A Force,  $T$ , Applied To A Rotor With Moment Of Inertia,  $I$ , Produces An Angular Acceleration,  $\alpha$ :  $\tau = Tr = I\alpha$  (8.14) Where  $R$  Is The Perpendicular Distance Between The Applied Force,  $T$ , And The Rotor's Axis. See Figure 8.2. File Size: 92KB Page Count: 8 Explore

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Multiple-Choice Questions 1. Which Of The Following Is The Unit For Angular Displacement? A. Meters B. Seconds C. Radians D. Radians Per Second 2. An Object

Moves From Point A To Point B Along A Circular Path With A Radius R. What Is The Size Of The Angle  $\theta$ ? A. 1 Rad B. 2 Rad C. 3 Rad ... Jan 9th, 2024

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Acceleration  $\alpha = 1.2 - 0.4t$ , Where  $\alpha$  Is In  $\text{Rad/s}^2$  And T Is In Seconds. It Is At Rest At  $T = 0$ . A) Calculate The Angular Velocity And Angular Displacement As Functions Of Time. B) Calculate The Maximum Positive Angular Velocity And Maximum Positive Angular Displacement Of The Wheel.  $\omega = 1.2t - 0.2t^2$  May 7th, 2024

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Physics 111 General Physics I Final Exam Formula Sheet Speedave = Distance/  $\Delta t$   
Linear Motion (Constant A): Rotational Motion (Constant  $\alpha$ ): Vave =  $\Delta x / \Delta t = (v_i + v_f) / 2$   
 $\omega_{ave} = \Delta \theta / \Delta t = (\omega_i + \omega_f) / 2$   
Aave =  $\Delta v / \Delta t$   
 $\alpha_{ave} = \Delta \omega / \Delta t$   
 $V = V_i + A T$   
 $\omega = \omega_i + \alpha T$   
 $v_f^2 - v_i^2 = 2 A \Delta x$   
 $\omega_f^2 - \omega_i^2 = 2 \alpha \Delta \theta$   
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Considering Rotational Equilibrium About The Back Wheels.  $F_1 \times 1.8 = Mg (1.8 - 1.05) = 0.75 \times 1800 \times 9.8$  Or  $F_1 = 0.75 \times 1800 \times 9.8 / 1.8 = 7350$  N Force On Each Front Wheel Is  $7350 / 2$  N Or 3675 N. System Of Particles And Rotational Motion



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