

Motion with constant Acceleration

$$v = \frac{\Delta x}{\Delta t} \quad a = \frac{\Delta v}{\Delta t}$$

$$x = x_0 + v_0 t + \frac{1}{2} a t^2$$

$$\Delta x = \frac{1}{2} (v + v_0) t$$

$$v = v_0 + a t$$

$$v^2 = v_0^2 + 2a(\Delta x)$$

Newton's 2nd Law

$$\vec{F}_{net} = \sum \vec{F} = m\vec{a}$$

means

$$\sum F_x = m a_x \quad \text{and} \quad \sum F_y = m a_y$$

Forces

$$F_G = G \frac{m_1 m_2}{r^2}$$

$$W = mg$$

$$F_c = m a_c = m \frac{v^2}{r}$$

$$f_s < \mu_s F_n$$

$$f_k = \mu_k F_n$$

$$G = 6.673 \times 10^{-11} \frac{N \cdot m^2}{kg^2}$$

$$g = 9.80 \frac{m}{s^2}, \text{ near Earth's surface}$$

$$R_{Earth} = 6.38 \times 10^6 m$$

$$m_{Earth} = 5.98 \times 10^{24} kg$$

Work, Energy & Power

$$W = Fd \cos \theta$$

$$PE_G = mgh$$

$$KE = \frac{1}{2} mv^2$$

$$W_{net} = KE_f - KE_i = \Delta KE$$

$$W_{spring} = -\Delta PE$$

$$W_{nc} = \Delta KE + \Delta PE$$

$$P = \frac{\text{Energy}}{\text{time}} = \frac{\text{Work}}{\text{time}} = Fv$$

Rotational Motion

$$\omega = \frac{\Delta \theta}{\Delta t} \quad \alpha = \frac{\Delta \omega}{\Delta t}$$

$$\theta = \theta_0 + \omega_0 t + \frac{1}{2} \alpha t^2$$

$$\Delta \theta = \frac{1}{2} (\omega + \omega_0) t$$

$$\omega = \omega_0 + \alpha t$$

$$\omega^2 = \omega_0^2 + 2\alpha(\Delta \theta)$$

$$s_{arc} = r\theta \quad v_t = r\omega \quad a_t = r\alpha \quad a_c = r\omega^2$$

Torque & Moment of Inertia, Energy

$$\tau = Fl \quad \tau = I\alpha \quad I = \sum mr^2$$

$$KE = \frac{1}{2} I \omega^2 \text{ (rotational KE)}$$

Impulse & Momentum

$$\vec{J} = \vec{F} \Delta t = \Delta \vec{p}$$

$$\Delta p = m \Delta v = m(v_f - v_i)$$

$$L = I\omega \text{ (angular momentum)}$$

Collisions (Elastic, 2-Body, $v_{cm}=0$)

$$v_1' = \left(\frac{m_1 - m_2}{m_1 + m_2} \right) v_1 \quad v_2' = \left(\frac{2m_1}{m_1 + m_2} \right) v_1$$

Collisions - (Inelastic)

$$v = \frac{m_1 v_1 + m_2 v_2}{m_1 + m_2}$$

Center of Mass

$$x_{cm} = \frac{m_1 x_1 + m_2 x_2 + \dots}{m_1 + m_2 + \dots}$$

$$v_{cm} = \frac{m_1 v_1 + m_2 v_2}{m_1 + m_2}$$

Pressure

$$P = F/A$$

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Table of Contents My Ezzz Physics

1. Understanding the eBook My Ezzz Physics
 - The Rise of Digital Reading My Ezzz Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying My Ezzz Physics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an My Ezzz Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from My Ezzz Physics
 - Personalized Recommendations
 - My Ezzz Physics User Reviews and Ratings
 - My Ezzz Physics and Bestseller Lists
5. Accessing My Ezzz Physics Free and Paid eBooks

- My Ezzz Physics Public Domain eBooks
- My Ezzz Physics eBook Subscription Services
- My Ezzz Physics Budget-Friendly Options
- 6. Navigating My Ezzz Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - My Ezzz Physics Compatibility with Devices
 - My Ezzz Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of My Ezzz Physics
 - Highlighting and Note-Taking My Ezzz Physics
 - Interactive Elements My Ezzz Physics
- 8. Staying Engaged with My Ezzz Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers My Ezzz Physics
- 9. Balancing eBooks and Physical Books My Ezzz Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection My Ezzz Physics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine My Ezzz Physics
 - Setting Reading Goals My Ezzz Physics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of My Ezzz Physics
 - Fact-Checking eBook Content of My Ezzz Physics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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