

~ LAWS OF MOTION ~

yay forces!!!

NEWTON'S LAWS

First Law: an object in motion will stay in motion + an object at rest will stay at rest unless affected by an outside force

Second Law: $\Sigma F = ma$, no acc without a net force

Third Law: there are always two forces equal in magnitude + opp. in direction



forces can be broken into components

GRAVITATIONAL FORCE

force the earth exerts on an object

$\Sigma F = mg = ma$ so $a = g$



$F_{12} = F_{21}$
Newton's Third Law

NORMAL FORCE

force acting \perp on an object on a flat surface

$F_N = mg$ so $\Sigma F = 0$ + $a = 0$



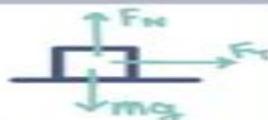
$T_1 \cos \theta_1 = T_2 \cos \theta_2$

$T_1 \sin \theta_1 + T_2 \sin \theta_2 = mg$

TENSION FORCE

a rope exerts a force on an object away from it + parallel to the rope

$\Sigma F = F_r$



Atwood Machine!

$m_1 g - m_2 g = (m_1 + m_2) a$

$T_1 = T_2$

FRICITION FORCE

Static: amt of force to get an object moving

Kinetic: acts on an object in motion

$|f_k| = \mu |F_N|$



$mg \sin \theta - f - m_2 g = (m_1 + m_2) a$

$f = \mu mg \cos \theta$

RESISTIVE FORCE

air resistance (drag)

$F_r = -Kv$

$F_r = -Kv^2$



air molecules build up underneath

TERMINAL VELOCITY

- F_r increases
- ΣF decreases
- acc decreases



$F_r = mg$
or $v_T^2 = \frac{mg}{b}$
 $v = \sqrt{\frac{mg}{b}}$

derivation

MISTAKES

- F_{net} in elevator problems

- forgetting forces
- friction is confusing sometimes

FRQ \equiv LAB ?

- force diagrams
- modified atwood machines/lab
- deriving expressions for things like $\mu, a, T_{max}, T_{min}, F, m,$ etc
- calculating forces
- elevator problems/lab
- kinematics with $F=ma$
- motion graphing

Physics Study Guide Forces In Two Dimensions

Kathleen Armour



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Table of Contents Physics Study Guide Forces In Two Dimensions

1. Understanding the eBook Physics Study Guide Forces In Two Dimensions
 - The Rise of Digital Reading Physics Study Guide Forces In Two Dimensions
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Study Guide Forces In Two Dimensions
 - 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 Physics Study Guide Forces In Two Dimensions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Study Guide Forces In Two Dimensions
 - Personalized Recommendations
 - Physics Study Guide Forces In Two Dimensions User Reviews and Ratings
 - Physics Study Guide Forces In Two Dimensions and Bestseller Lists
5. Accessing Physics Study Guide Forces In Two Dimensions Free and Paid eBooks
 - Physics Study Guide Forces In Two Dimensions Public Domain eBooks
 - Physics Study Guide Forces In Two Dimensions eBook Subscription Services

- Physics Study Guide Forces In Two Dimensions Budget-Friendly Options
- 6. Navigating Physics Study Guide Forces In Two Dimensions eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics Study Guide Forces In Two Dimensions Compatibility with Devices
 - Physics Study Guide Forces In Two Dimensions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Study Guide Forces In Two Dimensions
 - Highlighting and Note-Taking Physics Study Guide Forces In Two Dimensions
 - Interactive Elements Physics Study Guide Forces In Two Dimensions
- 8. Staying Engaged with Physics Study Guide Forces In Two Dimensions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Study Guide Forces In Two Dimensions
- 9. Balancing eBooks and Physical Books Physics Study Guide Forces In Two Dimensions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Study Guide Forces In Two Dimensions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Study Guide Forces In Two Dimensions
 - Setting Reading Goals Physics Study Guide Forces In Two Dimensions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Study Guide Forces In Two Dimensions
 - Fact-Checking eBook Content of Physics Study Guide Forces In Two Dimensions
 - 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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