Newton's Laws of Motion and Friction

Syllabus: Force and inertia, Newton's laws of motion, conservation of linear momentum, inertial frames of references, static and kinetic fraction, laws of friction, rolling friction.

Review of Concepts

Concept of Force and net Force: Force is familiar
word in science. From your own experience, you know that
forces can produce changes in motion. If a force is applied to
a stationary body, the body comes in motion. It can speed up
and slow down a moving body or change the direction of its
motion. In nut shell, the force is cause of change in velocity
of the body. In other words, force is the cause of acceleration
of the body.

If a number of forces act on a body, the net or resultant force on the body is vector sum of all forces.

Newton's second law gives a good relation between net force and acceleration of body.

According to Newton's second law of motion,

If the resultant force on the body is zero, body remains either in rest or moves with constant velocity. A non-zero net force is referred to as an unbalanced force. Unbalanced force is cause of acceleration of the body.

Newton's Second Law: The resultant force on a body is equal to product of mass and acceleration of the body. The direction of acceleration is same as the direction of resultant force. Mathematically.

Here, \overrightarrow{F} = net force on the body

st = mass of the body

a = acceleration of the body

Application of methods using Newton's second law of motion:

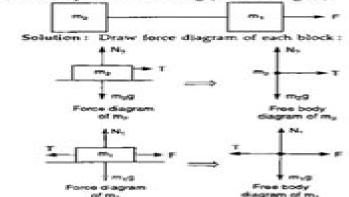
- Concentrate your mind on the body which is considered by you.
- (ii) Make a separate sketch for the considered body.
- (iii) Show all forces acting on the body.
- (iv) Reduce the considered body to a single point (point mass) and redraw the forces acting on the body, such that tails of all force vectors are on the point mass. This is known as free body diagram.
- (v) Choose a co-ordinate system for the problem whose origin is at the point mass.
- (vi) Find EF, EF, and EF,
- (vii) Write Newton's second law for each of the co-ordinate system.

i.e.,
$$\sum F_x = ma_x$$
, $\sum F_y = ma_y$

$$\sum F_{\mu} = m \omega_{\mu}$$

Case I: Free body diagram of connected bodies on a horizontal smooth surface.

Situation: Two blocks of masses m₁ and m₂ are connected by a massless string (shown in figure).



Case II: Choose co-ordinate system and apply Newton's second law:

For m₂:
$$\Sigma F_y = N_2 - m_2 g$$

Since, both bodies move in horizontal direction (along x-axis), x

hence, y-component of acceleration of both blocks should be zero.

$$A_y = 0$$

$$\Sigma F_y = ma_y$$

$$N_2 - m_2 g = m \times 0 = 0$$

$$N_2 = m_2 g$$

$$\Delta Iso, \qquad \Sigma F_x = F - T = m_2 a_{2x}$$

$$F - T = m_2 a_{2x} \qquad ...(x)$$

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- 1. Understanding the eBook Newtons Law Study Guide Answer Key
 - The Rise of Digital Reading Newtons Law Study Guide Answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Newtons Law Study Guide Answer Key
 - 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 Newtons Law Study Guide Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Newtons Law Study Guide Answer Key

- Personalized Recommendations
- Newtons Law Study Guide Answer Key User Reviews and Ratings
- Newtons Law Study Guide Answer Key and Bestseller Lists
- 5. Accessing Newtons Law Study Guide Answer Key Free and Paid eBooks
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 - Highlighting and Note-Taking Newtons Law Study Guide Answer Key
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- 8. Staying Engaged with Newtons Law Study Guide Answer Key
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Newtons Law Study Guide Answer Key
- 9. Balancing eBooks and Physical Books Newtons Law Study Guide Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Newtons Law Study Guide Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Newtons Law Study Guide Answer Key
 - Setting Reading Goals Newtons Law Study Guide Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Newtons Law Study Guide Answer Key

- Fact-Checking eBook Content of Newtons Law Study Guide Answer Key
- 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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