

CONTENTS:

- Kinematics + forces
- Newton's Laws
- Gravitation and Electric fields
- Electric circuits
- Electrodynamics

KINEMATICS:

mechanics: Branch of physical science that deals with energy and forces and their effect on bodies.

vector: Physical quantity that has both magnitude and direction

Resultant vector: Single vector that has same effect on a body as original vectors acting together.

tail-to-head: Method of graphically finding resultant vector.

— Resultant of 2 perpendicular forces:

- tail-to-head



$$F_{\text{net}}^2 = F_1^2 + F_2^2$$

$$F_{\text{net}}^2 = 0.43^2 + 2.1^2$$

$$F_{\text{net}}^2 = 4.59$$

$$F_{\text{net}} = 2.14\text{N}$$

— Resultant of more than 2 perpendicular forces:

- add & subtract vertical and horizontal forces to end up with one vertical and one horizontal force
- Then do tail-to-head method



$$\sin 42^\circ = \frac{F_{\text{hor}}}{F}$$

$$F_{\text{hor}} = 4.82$$

$$\cos 42^\circ = \frac{F_{\text{vert}}}{F}$$

$$F_{\text{vert}} = 5.35\text{N}$$



Physical Science Paper Topics

K Morrison



Physical Science Paper Topics:

This book delves into Physical Science Paper Topics. Physical Science Paper Topics is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Paper Topics, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Physical Science Paper Topics
- Chapter 2: Essential Elements of Physical Science Paper Topics
- Chapter 3: Physical Science Paper Topics in Everyday Life
- Chapter 4: Physical Science Paper Topics in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Physical Science Paper Topics. This chapter will explore what Physical Science Paper Topics is, why Physical Science Paper Topics is vital, and how to effectively learn about Physical Science Paper Topics.
3. In chapter 2, this book will delve into the foundational concepts of Physical Science Paper Topics. This chapter will elucidate the essential principles that need to be understood to grasp Physical Science Paper Topics in its entirety.
4. In chapter 3, this book will examine the practical applications of Physical Science Paper Topics in daily life. This chapter will showcase real-world examples of how Physical Science Paper Topics can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Physical Science Paper Topics in specific contexts. The fourth chapter will explore how Physical Science Paper Topics is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Physical Science Paper Topics. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Paper Topics.

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