

# Engineering Science N4

## Summary

### Module 1: Kinematics

#### Unit 1: 1 Relative Velocity

##### Definitions

- 1) Scalars: A quantity that consists of *magnitude only*. Examples are time, mass, distance, speed, energy, work done, etc.
- 2) Vectors: A quantity consisting of *magnitude and direction*. Displacement, weight, velocity, momentum, acceleration, etc.
- 3) Mass: A quantity of matter. A *scalar* quantity because it has no direction
- 4) Weight: A force with which an object is attracted to the earth. Measured in Newtons.
- 5) Speed: Distance travelled during a time interval. *Scalar* because of *no direction*.

$$\text{Speed} = \text{distance} \frac{\text{distance}(s)}{\text{time elapsed}(t)}$$

- 6) Velocity: Displacement per unit time or rate of displacement and is a vector (direction)

$$\text{Velocity}(v) = \frac{\text{displacement}(\Delta s)}{\text{time elapsed}(\Delta t)}$$

# N4 Engineering Science Study Guide

**Shirley M. Smith**



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**Engineering Science N4** Rousseau,1994-12      N4 Engineering Science ,2019      **basic engineering science n4**  
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## **Table of Contents N4 Engineering Science Study Guide**

1. Understanding the eBook N4 Engineering Science Study Guide
  - The Rise of Digital Reading N4 Engineering Science Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying N4 Engineering Science Study Guide
  - 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 N4 Engineering Science Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from N4 Engineering Science Study Guide
  - Personalized Recommendations
  - N4 Engineering Science Study Guide User Reviews and Ratings
  - N4 Engineering Science Study Guide and Bestseller Lists
5. Accessing N4 Engineering Science Study Guide Free and Paid eBooks

- N4 Engineering Science Study Guide Public Domain eBooks
- N4 Engineering Science Study Guide eBook Subscription Services
- N4 Engineering Science Study Guide Budget-Friendly Options
- 6. Navigating N4 Engineering Science Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - N4 Engineering Science Study Guide Compatibility with Devices
  - N4 Engineering Science Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of N4 Engineering Science Study Guide
  - Highlighting and Note-Taking N4 Engineering Science Study Guide
  - Interactive Elements N4 Engineering Science Study Guide
- 8. Staying Engaged with N4 Engineering Science Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers N4 Engineering Science Study Guide
- 9. Balancing eBooks and Physical Books N4 Engineering Science Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection N4 Engineering Science Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine N4 Engineering Science Study Guide
  - Setting Reading Goals N4 Engineering Science Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of N4 Engineering Science Study Guide
  - Fact-Checking eBook Content of N4 Engineering Science Study Guide
  - 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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