

5.1 Week 1: MOTION, POWER AND ENERGY

Purpose	This week will introduce the concept of how bodies behave when in motion.
Learning Outcomes	<p>By the end of this week, you will be able to:</p> <ul style="list-style-type: none"> • Differentiate between scalar and vector quantities. • Define velocity, speed, displacement, distance and acceleration. • Manipulate and apply specified equations of motion in calculations. • Describe Newton's Laws of motion. • State and apply the Law of Conservation of energy. • Define work done, potential energy, kinetic energy and power. • State the Law of Conservation of momentum. • Describe circumferential velocity, belt speed, effective pulling force and power.
Time	It will take you 7,5 hours to make your way through this study week.
Prescribed Reading	M J J Van Rensburg. Engineering Science N3: Macmillan. ISBN: 9781430803577

5.1.1 Velocity and acceleration

This week, we will explore the concept of motion.

- Scalar is a physical quantity that has a magnitude only. E.g. (speed, mass, distance, time, etc.)
- Vector is a physical quantity that has both magnitude and direction. E.g. (velocity, weight, displacement, etc.)
- Speed- is the rate of change in distance and is measured in meters per second (m/s).
- Velocity-is the rate of change in displacement and is measured in meters per second (m/s).
- Acceleration-is the rate of change of velocity and is measured in meter per second squared (m/s²).
- Distance-is the actual path or route taken and is measured in meters (m).
- Displacement-is the straight path from the starting point to the end point and is measured in meters (m).

There are equations that are used for linear motion:

$$v = u + at$$

$$v^2 = u^2 + 2as$$

$$s = \left(\frac{u + v}{2} \right) t$$

$$s = ut + \frac{1}{2}at^2$$

Where: "a" is the acceleration (m/s²)

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Table of Contents Engineering Science N3 Motion Power And Energy

1. Understanding the eBook Engineering Science N3 Motion Power And Energy
 - The Rise of Digital Reading Engineering Science N3 Motion Power And Energy
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Science N3 Motion Power And Energy
 - 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 Engineering Science N3 Motion Power And Energy
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Science N3 Motion Power And Energy
 - Personalized Recommendations

- Engineering Science N3 Motion Power And Energy User Reviews and Ratings
- Engineering Science N3 Motion Power And Energy and Bestseller Lists
- 5. Accessing Engineering Science N3 Motion Power And Energy Free and Paid eBooks
 - Engineering Science N3 Motion Power And Energy Public Domain eBooks
 - Engineering Science N3 Motion Power And Energy eBook Subscription Services
 - Engineering Science N3 Motion Power And Energy Budget-Friendly Options
- 6. Navigating Engineering Science N3 Motion Power And Energy eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Science N3 Motion Power And Energy Compatibility with Devices
 - Engineering Science N3 Motion Power And Energy Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Science N3 Motion Power And Energy
 - Highlighting and Note-Taking Engineering Science N3 Motion Power And Energy
 - Interactive Elements Engineering Science N3 Motion Power And Energy
- 8. Staying Engaged with Engineering Science N3 Motion Power And Energy
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Science N3 Motion Power And Energy
- 9. Balancing eBooks and Physical Books Engineering Science N3 Motion Power And Energy
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Science N3 Motion Power And Energy
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Science N3 Motion Power And Energy
 - Setting Reading Goals Engineering Science N3 Motion Power And Energy
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Science N3 Motion Power And Energy
 - Fact-Checking eBook Content of Engineering Science N3 Motion Power And Energy

- 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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