

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)

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

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SA Adler



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Adopting the Track of Term: An Mental Symphony within **Engineering Science N4 Learners Guide**

In a global eaten by monitors and the ceaseless chatter of immediate conversation, the melodic elegance and emotional symphony created by the published term usually diminish into the backdrop, eclipsed by the persistent sound and distractions that permeate our lives. Nevertheless, situated within the pages of **Engineering Science N4 Learners Guide** a charming literary treasure full of raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this fascinating masterpiece conducts readers on a psychological trip, skillfully unraveling the concealed melodies and profound influence resonating within each carefully constructed phrase. Within the depths with this touching examination, we shall explore the book is main harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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