Engineering Science N4

Summary

Module 1: Kinematics

Unit 1:1 Relative Velocity

Definitions

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

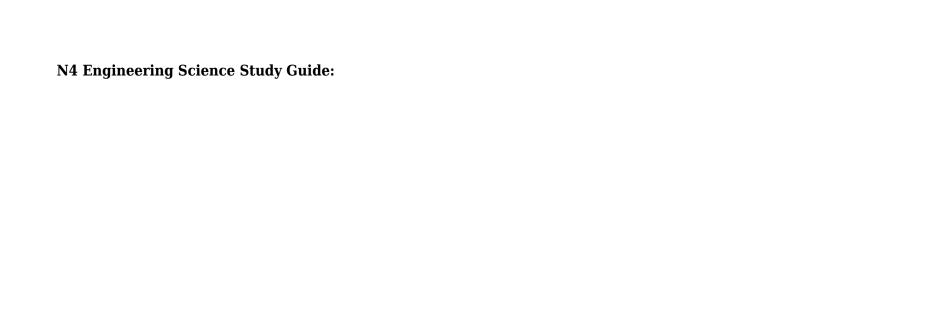
 $Speed = distance \frac{distance(s)}{time elapsed(t)}$

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

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

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Michael Seilmaier



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