

# Study Guide

## **Physics**

- Memorize all equations!

### **Kinematics and Dynamics**

- ✓ Fundamental measurements: imperial and metric systems
- ✓ Base units and derived units
- Dimensions refer to magnitude of length OR distance. Two-dimensional is on a 2D place, 3D on 3D, etc.
  - ◆ 2D: xy coordinates
  - ◆ 3D: xyz coordinates
  - ◆ 4D: xyzt coordinates
- ✓ Operation involving a vector and a vector may not result in a vector.
- ✓ Operation involving a vector and a scalar only results in a vector.
- ✓ Operation involving a scalar and a scalar results in a scalar.
- ✓ Vector addition
  - ◆ ✓ Tip-to-tail method: literally just add  $A+B+C\dots$  etc.
  - ◆ ✓ Perpendicular components (x & y typically)
  - ◆ ✓ Magnitude and direction calculations
- Vector subtraction
  - ◆ Add vector with equal magnitude and opposite direction to the first vector.
  - ◆  $A-B=A+(-B)$
  - ◆ Subtraction may be performed on component vectors, then combined to create a final vector.
- Multiplying vectors by scalars
  - ◆ This will cause a change in magnitude, but the direction will be either parallel or antiparallel to the original direction.
  - ◆ Multiply vector A & a scalar value to find magnitude of new vector.
  - ◆ If the scalar value is positive, the old and new vectors will have the same direction. If it's negative, opposite directions.
- Multiplying vectors by other vectors
  - ◆ ✓ Dot product to generate a scalar quantity
  - ◆ ✓ Cross product to generate a new vector. Resultant will always be perpendicular to plane created by the 2 vectors.
  - ◆ Use right hand rule to determine direction
    - Point thumb in direction of vector A.
    - Extend fingers in direction of vector B.
    - Palm points in direction of vector, since palm establishes plane between vectors.
  - See example on Page 11

# 15 Study Guide Sound Physics

**B Lingard**

## 15 Study Guide Sound Physics:

*Study Guide for Physics in the Modern World 2E* Jerry Marion, 2012-12-02 Study Guide for Physics in the Modern World 2E provides information pertinent to the fundamental concepts in physics. This book presents a list of concepts, definitions and equations with various supplementary exercises for the readers. Comprised of 21 chapters, this book starts with an overview of the standard units of measure for length, time, mass, energy, force, pressure and density. This text then provides the meaning of various terms in physics, including atom, molecule, element and compound. Other chapters explore the composition and behavior of all ordinary matter in which it depends on the four basic units, including electrons, protons, neutrons and photons. This book discusses as well the method used for converting the units of physical quantities from one system of measurement to another. The final chapter deals with the various applications of radiation in biological investigations as well as in medical diagnostics and therapeutics. This book is intended for students enrolled in introductory physics courses.

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