## 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: xvz 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... 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

# **Physics 3study Guide**

**Kathleen Armour** 



The Enigmatic Realm of **Physics 3study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Physics 3study Guide** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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