

# 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 plane, 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

# University Physics Study Guide

**Tao Wei**



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