

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

M Woodhall



University Physics Study Guide:

Whispering the Strategies of Language: An Mental Quest through **University Physics Study Guide**

In a digitally-driven earth where displays reign great and instant communication drowns out the subtleties of language, the profound strategies and emotional subtleties concealed within phrases usually get unheard. However, located within the pages of **University Physics Study Guide** a captivating fictional treasure sporting with raw feelings, lies a fantastic journey waiting to be undertaken. Written by a skilled wordsmith, that marvelous opus attracts readers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within ab muscles material of every word. Within the mental depths with this moving evaluation, we shall embark upon a sincere exploration of the book is primary subjects, dissect their captivating publishing style, and succumb to the strong resonance it evokes deep within the recesses of readers hearts.

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