

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

Chapter 21 Physics Study Guide Answers

Yijin Wang



Chapter 21 Physics Study Guide Answers:

Unveiling the Magic of Words: A Report on "**Chapter 21 Physics Study Guide Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Chapter 21 Physics Study Guide Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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