

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

Harris Benson



University Physics Study Guide:

The Ultimate College Physics Study Guide Mohammed Abella,1994-02-01 *Student Study Guide and Solutions Manual for University Physics, Volume 1 (Chapters 1-20)* Hugh Young,Roger Freedman,2019-07-27 The Student's Study Guide summarizes the essential information in each chapter and provides additional problems for the student to solve reinforcing the text's emphasis on problem solving strategies and student misconceptions Student's Study Guide for University Physics with Modern Physics Volume 1 Chapters 1-20 University physics study guide Ting Yuxi Jiang,2002 Student Study Guide and Solutions Manual for University Physics, Volume 2 (Chapters 21-37) Hugh Young,Roger Freedman,2019-08-15 The Student's Study Guide summarizes the essential information in each chapter and provides additional problems for the student to solve reinforcing the text's emphasis on problem solving strategies and student misconceptions Student's Study Guide for University Physics with Modern Physics Volume 2 Chapters 21-37 **University Physics** Laird Kramer,2008

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how to solve the kind of problems you will encounter in homework assignments and examinations Pref **University Physics With Modern Physics + Masteringphysics + Study Guide for University Physics Vol 1 + Study Guide for University Physics Vols 2 and 3** Hugh D. Young, Roger A. Freedman, Lewis Ford, 2007-08-13 Student's Study Guide for University Physics with Modern Physics, Volume 2 And 3 (Chapters 21-44) Hugh D. Young, Roger A. Freedman, 2015-05-01 This volume covers Chapters 21-44 of the main text The Student's Study Guide summarizes the essential information in each chapter and provides additional problems for the student to solve reinforcing the text's emphasis on problem solving strategies and student misconceptions **The Study Guide to Accompany University Physics** Kenneth E. Jesse, 1990 Study Guide for College Physics Hugh D. Young, Robert Geller, 2006-08

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