

PHYSICS STUDY GUIDE
CHAPTER 4: VECTORS

TOPICS:

- Vectors

WHAT YOU MUST KNOW

- Identify vector physical quantities
- Label a vector
- Add two vectors
- Add multiple vectors
- Find the x-component and y-component of .



I'm applying for a villain loan. I go by Vector. It's a mathematical term, represented by an arrow with both magnitude and direction. Vector! That's me, because I commit crimes with both direction and magnitude. Oh yeah!

DEFINITIONS

- **Vector:** Physical quantity that requires magnitude and direction.
- **Resultant:** Addition of two or more vectors
- **Vector component:** decomposition of a vector resultant in a horizontal component (x-direction) and a vertical component (y-direction)

VECTOR PHYSICAL QUANTITIES STUDIED IN CLASS (SO FAR)

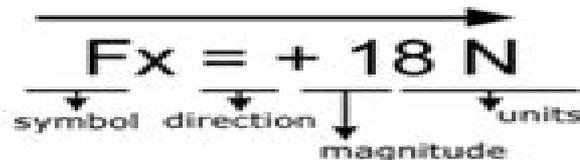
- d_x or d_y Position
- Δd_x or Δd_y Displacement
- v_x or v_y velocity
- a_x or a_y Acceleration
- F_x or F_y Force

REPRESENTING VECTORS

- Vectors are represented with arrows:
 - The length of the arrow represents the magnitude (number) of the vector.
 - The tip of the arrow represents the direction of the vector.

LABELING VECTORS

- Labeling vectors include:
 - Symbol
 - Direction
 - Magnitude
 - Units



EXAMPLES:



Chapter 4 Physics Study Guide

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Chapter 4 Physics Study Guide:

Study Guide to Accompany Physics, by Paul A. Tipler Granvil C. Kyker, 1976 **PET Study Guide** Snmts, 2010
Focusing on the fundamentals of PET imaging in oncology cardiology and neurology the new PET Study Guide has been designed to serve as an indispensable reference and review tool to assist technologists preparing for the Nuclear Medicine Technology Review Board NMTCB PET Specialty exam **SCM Studyguide: Christian Ethics** Messer Neil, 2015-04-21
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Study Guide with ActivPhysics Alan Van Heuvelen,1999 **Study Guide to Accompany Fuller/Fuller/Fuller Physics** Thomas C. Campbell,Robert G. Fuller,1978 *An Introduction to Physics* Harvard Project Physics,1968 *SCM Studyguide to Science and Religion* Jean Dorricott,2005 This undergraduate level one textbook provides an introduction to the apparently incompatible subjects of religion and science Each chapter contains references for finding out more about particular arguments be they scientific or religious areas for discussion Where particularly difficult concepts are referred to in the body of the text further explanations are provided in boxed sections *Student Study Guide to Accompany Physic* Jerry B. Marion,1971 **Shipman Phys Sci 6e Study Guide** James T. Shipman,Jerry D. Wilson,1990 **Study Guide to Accompany Microbiology, Fourth Edition** George A. Wistreich,1984 *Study Guide, Student Solutions Manual* Raymond

A. Serway, John R. Gordon, 1998 **Project Physics : Text and Handbook** , 1975 **Student Pocket Companion**
Assistant Professor Department of Mathematics James S Walker, James S. Walker, 2003-05

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