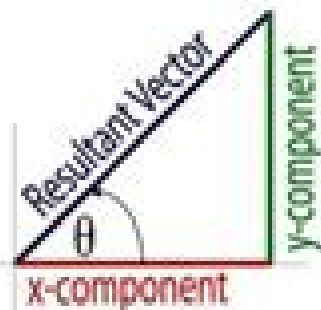
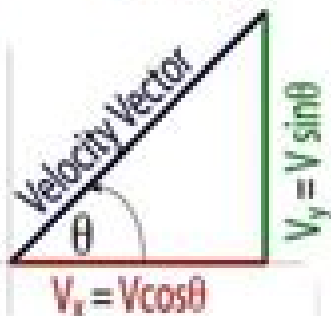


# Chapter 3: Two Dimensional Motion

## Vectors in Physics



$$\vec{V} = \vec{V}_x + \vec{V}_y$$



$$\vec{F} = \vec{F}_x + \vec{F}_y$$



Pythagorean's Theorem

$$V^2 = V_x^2 + V_y^2$$

magnitude of resultant

$$V = \sqrt{V_x^2 + V_y^2}$$

direction of resultant

$$\theta = \tan^{-1} \left( \frac{y}{x} \right)$$

Random Vectors

$$\vec{A} = 7.7\hat{x} + 4.5\hat{y}$$

$$\vec{B} = -9.6\hat{x} + 3.0\hat{y}$$

$$\vec{C} = -9.3\hat{x} + -10.5\hat{y}$$

Analytical

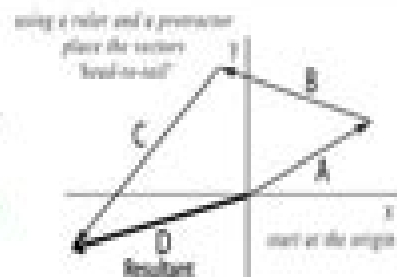
Component Addition

$$\vec{A} = 7.7\hat{x} + 4.5\hat{y}$$

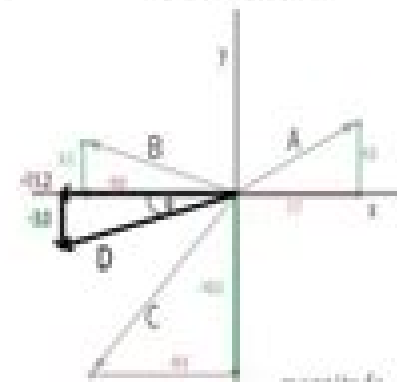
$$\vec{B} = -9.6\hat{x} + 3.0\hat{y}$$

$$\vec{C} = -9.3\hat{x} + -10.5\hat{y}$$

$$\vec{D} = -11.2\hat{x} + -3.0\hat{y}$$



Geometrical



$$|\vec{D}| = \sqrt{(-11.2)^2 + (-3.0)^2} = 11.6$$

$$\text{direction } \theta = \tan^{-1} \left( \frac{-3.0}{-11.2} \right) = 15^\circ$$

## Section 1: Vectors

# Chapter3 Two Dimensional Motion And Vectors

**Stanley A. Williams**



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**Introduction to Understandable Physics** Will Winn,2010-02      **Physlet Physics 3E Volume I** Wolfgang Christian and Mario Belloni,2019-07-11 Physlet Physics 3E Volume I contains a collection of exercises spanning the introductory physics sequence These exercises use computer animations generated in JavaScript applets to show physics content on desktop and laptop computers We call these Java applets Physlets Physics content simulated with JavaScript applets written at Davidson College Every chapter of Physlet Physics contains three quite different Physlet based exercises Illustrations Explorations and Problems Illustrations are designed to demonstrate physical concepts Explorations are tutorial in nature Problems are interactive versions of the kind of exercises typically assigned for homework This electronic book contains the narrative to all 800 exercises and links to the interactive content The interactive content requires a desktop laptop tablet or phone and a JavaScript enabled browser to run The first edition of Physlet Physics was an interactive book and CD for the teaching of introductory modern physics and quantum mechanics on the college level Physlet Physics was originally published as part of Prentice Hall s Series in Educational Innovation The second edition of Physlet Physics represented a major change in how the 800 Physlet based interactive materials were delivered to teachers and students alike Instead of accessing materials off of the CD that came with the first edition accessed the Physlet Physics 2E AAPT ComPADRE site via a Java enabled browser on desktop and laptop computers For the third edition of Physlet Physics all applets are now JavaScript and can be accessed on any device and browser via links in this book or directly at <http://compadre.org/physlets> The JavaScript based materials described in this book run on tablets and phones as well as desktop and laptop computers      **Physics, 11th Edition Student Study Guide** John D. Cutnell,2018-01-23 The Student Study Guide to accompany Physics 11E contains chapter summaries and quick references to important equations and key chapter terms with definitions provided      [Physlet Physics 2E Volume I](#) Wolfgang Christian and Mario Belloni,2014-07-04      [Essential Physics](#) John Matolyak,Ajawad Haija,2013-12-17 Fluency with physics fundamentals and problem solving has a collateral effect on students by enhancing their analytical reasoning skills In a sense physics is to intellectual pursuits what strength training is to sports Designed for a two semester algebra based course Essential Physics provides a thorough understanding of the fundamentals of ph

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present an overview of video compression techniques with an emphasis to techniques that use motion estimation such as MPEG and H 2611H 263 Then we give a survey of current motion estimation search algorithms including the exhaustive search and a number of fast search algorithms An evaluation of current search algorithms based on a number of experiments on several test video sequences is presented as well The theoretical framework for a new fast search algorithm Densely Centered Uniform P Search DCUPS is developed and presented in the book The complexity of the DCUPS algorithm is comparable to other popular motion estimation techniques however the algorithm shows superior results in terms of compression ratios and video qUality We should stress out that these new results presented in Chapters 4 and 5 have been developed by Joshua Greenberg as part of his M Sc thesis entitled Densely Centered Uniform P Search A Fast Motion Estimation Algorithm FAU 1996

*Biomedical Applications for Introductory Physics* J. A. Tuszynski,J. M. Dixon,2002 Can be utilized in either Algebra or Calculus based courses and is available either as a standalone text or as a supplement for books like Cutnell PHYSICS 5e or Halliday Resnick however a few examples require the use of integration and differentiation Unlike competing supplements Tuszinski offers both a wealth of engaging biomedical applications as well as quantitative problem solving The quantitative problem solving is presented in the form of worked examples and homework problems The quantitative problem solving is presented in the form of worked examples and homework problems The standard organization facilitates the integration of the material into most introductory courses

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