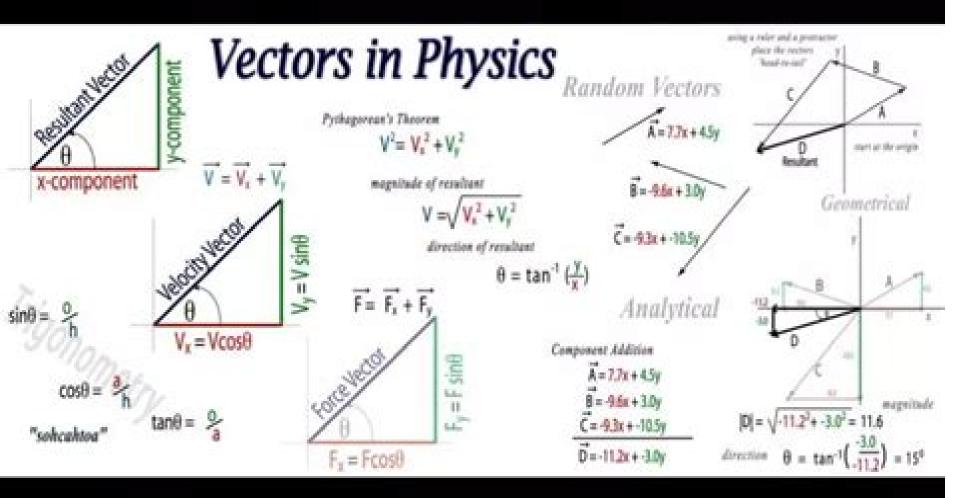
Chapter 3: Two Dimensional Motion



Section 1: Vectors

Chapter3 Two Dimensional Motion And Vectors

Paul A. Tipler, Gene Mosca

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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.

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