

Kinematics: A study of how things move

Distance (scalar) = x, s, y

Displacement (vector) = $\vec{x}_e + \Delta \vec{x} = \vec{x}_f \rightarrow \Delta \vec{x} = \vec{x}_f - \vec{x}_e$

Average speed (scalar) = $\frac{\text{distance}}{\text{time}}$

Average velocity (vector) $\vec{v} = \frac{\Delta \vec{x}}{\Delta t} = \frac{\vec{x}_f - \vec{x}_e}{\Delta t}$

Instantaneous velocity (vector) $\vec{v} = \lim_{\Delta t \rightarrow 0} \frac{\Delta \vec{x}}{\Delta t}$

Average acceleration (vector) $\vec{a} = \frac{\vec{v}_f - \vec{v}_e}{\Delta t}$

Instantaneous acceleration $\vec{a} = \lim_{\Delta t \rightarrow 0} \frac{\Delta \vec{v}}{\Delta t}$

Kinematics Part 1: Motion in one dimension (horizontal) with constant acceleration

Three important kinematic equations:

1. $\vec{v}_f = \vec{v}_e + \vec{a}t$
2. $\vec{v}_f^2 = \vec{v}_e^2 + 2\vec{a}(\vec{x}_f - \vec{x}_e)$
3. $(\vec{x}_f - \vec{x}_e) = \vec{v}_e t + \frac{1}{2}\vec{a}t^2$

Study Guide Motion With Constant Acceleration

John D. Cutnell

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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

Physics for Scientists and Engineers Study Guide Todd Ruskell, 2007-06-08 The Study Guide provides students with key physical quantities and equations misconceptions to avoid questions and practice problems to gain further understanding of physics concepts and quizzes to test student knowledge of chapters

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Fundamentals of Physics, Study Guide Stanley A. Williams, Kenneth Brownstein, Thomas Marcella, 1988-10-18 This third edition of the famous introductory physics text has been thoroughly revised and updated The new edition contains two entirely new chapters Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest Each essay is self contained and is written by an expert in the topic The body of the text contains more help in problem solving and the chapter sections are shorter making the material more accessible There are more photos and diagrams than before including attention getting chapter head photos and captions The number of worked examples has been increased as has the number of questions exercises and problems In addition a thread of ideas from relativistic and quantum physics is weaved through the earlier chapters preparing the way for the later chapters

Study Guide--Physics for Scientists and Engineers with Modern Physics [by] Douglas C. Giancoli, 2nd Ed Douglas Brandt, Keith Andrew, Leonard E. Storm, 1988 [Study Guide NTSE \(MAT + SAT\) for Class 10 2021-22](#) Arihant Experts, 2021-08-21

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