

Unit 3: Uniform Acceleration Worksheet 2

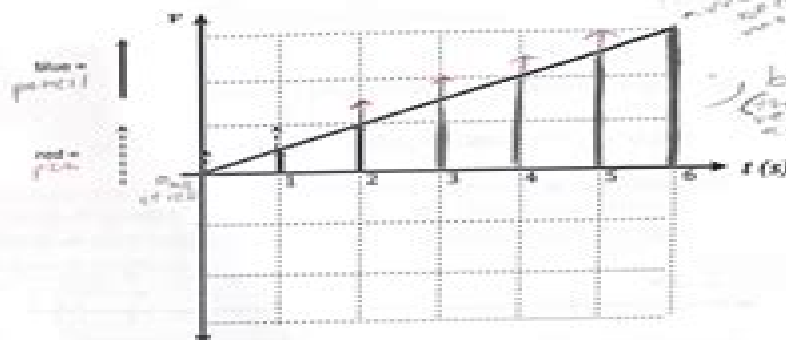
Name Alan Date 1/1/18

An object starts from rest and speeds up at a constant rate while moving in the positive direction for 6 s.

1. Examine the velocity vs. time graph to the right.

- a. Describe the motion of the object.

- starting at rest
- moving in + direction
- object is speeding up
- moving pretty fast



- b. On the graph, draw a blue arrow from the time axis to the plotted line for each clock reading ($t = 0$ through $t = 6.0$ s). ($t = 0$ through $t = 2.0$ s have been done for you.)

Each blue arrow is a vector that represents velocity at each clock reading.

- i. Why is there no blue arrow at $t = 0$?
because there was no velocity ($v = 0$)
 - ii. What do you notice about the length of these arrows?
getting longer since the object is speeding up
 - iii. What does this tell you about the motion of the object?
fasten
- c. The velocity changes as time goes on. At $t = 0$ on the graph, a red arrow pointing straight up (along what you would call "rise") has been drawn from the plotted line at $t = 0$ to the value of the velocity at $t = 1.0$ s. The length of this arrow represents the change in velocity from $t = 0$ to $t = 1.0$ s.

- i. This red arrow can also be thought of as a vector representing the Δv at $t = 0$.
- ii. Draw a red arrow of appropriate length for each clock reading from $t = 2.0$ s through $t = 6.0$ s. ($t = 0$ and $t = 1.0$ s have been done for you).

What do you notice about the length of these arrows?

they are all the same length
acceleration is constant

- d. Draw a motion map representing the motion of this object. Choose an appropriate zero position for the position axis. Make one dot every second. Use blue arrows to represent velocity and red arrows to represent acceleration. Your arrows should appear in length like those you draw on your graph.



Unit Lab Uniform Acceleration V0

Themistocles M. Rassias

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Principles of Electrodynamics Melvin Schwartz,1987-10-01 The 1988 Nobel Prize winner establishes the subject's mathematical background reviews the principles of electrostatics then introduces Einstein's special theory of relativity and applies it to topics throughout the book
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A Laboratory Manual of Physics and Applied Electricity: Junior course in general physics, by Ernest Merritt and Frederick J. Rogers Edward Leamington Nichols,1897
Applied Mechanics ... John Perry,1905

The Use of Modified Approaches to the Conventional Content of Physics Laboratory Manuals L. Dale Davidson,1962
A Laboratory manual of physics and applied electricity v. 1,1894
[Practical Interfacing in the Laboratory](#) Stephen E. Derenzo,2003-05-29 This text describes in practical terms how to use a desk top computer to monitor and control laboratory experiments The author clearly explains how to design electronic circuits and write computer programs to sense analyse and display real world quantities including displacement temperature force sound light and biomedical potentials The book includes numerous laboratory exercises and appendices that provide practical information on microcomputer architecture and interfacing including complete circuit diagrams and component lists Topics include analog amplification and signal processing digital to analog and analog to digital conversion electronic sensors and actuators digital and analog interfacing circuits and programming Only a very basic knowledge of electronics is assumed making it ideal for college level laboratory courses and for practising engineers and scientists
Entelek Computer-based Physics Lab Richard A. Rader,1975 The Programs Include Snell's Law Kepler's Second Law the Simple Pendulum Speed Acceleration Momentum Kinetic Energy Charge of Ions Focal Length Simple Electrical Circuits Wavelength of Light Mass of the Electron

Stability of Axially Moving Materials Nikolay Banichuk,Alexander Barsuk,Juha Jeronen,Tero Tuovinen,Pekka Neittaanmäki,2019-09-05 This book discusses the stability of axially moving materials which are encountered in process industry applications such as papermaking A special emphasis is given to analytical and semianalytical approaches As preliminaries we consider a variety of problems across mechanics involving bifurcations allowing to introduce the techniques in a simplified setting In the main part of the book the fundamentals of the theory of axially moving materials are presented in a systematic manner including both elastic and viscoelastic material models and the connection between the beam and panel models The issues that arise in formulating boundary conditions specifically for axially moving materials are discussed Some problems involving axially moving isotropic and orthotropic elastic plates are analyzed Analytical free vibration solutions for axially moving strings with and without damping are derived A simple model for fluid structure interaction of an axially moving panel is presented in detail This book is addressed to researchers industrial specialists and students in the fields of theoretical and applied mechanics and of applied and computational mathematics
A Laboratory Manual for General Physics William M. Baker,Daniel L. Harmon,1956
Space-time, Yang-mills Gravity, And Dynamics Of Cosmic

Expansion: How Quantum Yang-mills Gravity In The Super-macroscopic Limit Leads To An Effective $G_{\mu\nu}(t)$ And New Perspectives On Hubble's Law, The Cosmic Redshift And Dark Energy Jong-ping Hsu, Leonardo Hsu, 2019-11-05 This book shows how one can combine Yang Mills gauge symmetry and effective Einstein Grossmann metric tensors to tackle physical problems at microscopic macroscopic and super macroscopic length scales in inertial frames including the late time accelerated cosmic expansion due to baryon masses and charges The combination of gauge symmetry and effective metric tensor provides a framework and leads to an alternative dynamics of cosmic expansion based on quantum Yang Mills gravity at a super macroscopic limit Together with cosmological principle one can investigate and derive expanding scale factors the age of the universe the cosmic redshift and the Hubble recession velocity with an upper limit All these discussions are based on inertial frames with operationally defined space and time coordinates **Timeless Approach, The: Frontier**

Perspectives In 21st Century Physics Davide Fisaletti, 2015-09-08 This invaluable book provides a broad and comprehensive introduction to the fascinating and beautiful subject of timeless approaches in physics focusing the attention in particular on significant models developed recently by the author It presents relevant and novel perspectives in 21st century theoretical physics as regards the arena of physical processes and its geometry both in special relativity quantum mechanics the quantum gravity domain and about the quantum vacuum The timeless approach may be used as a source of reference by researchers in theoretical physics and at the same time it is also suitable for graduate students in physics who wish to have an extend view of some of the classic and fundamental models in the subject **Dynamics and Relativity**

Jeffrey Forshaw, Gavin Smith, 2014-05-20 A new title in the Manchester Physics Series this introductory text emphasises physical principles behind classical mechanics and relativity It assumes little in the way of prior knowledge introducing relevant mathematics and carefully developing it within a physics context Designed to provide a logical development of the subject the book is divided into four sections introductory material on dynamics and special relativity which is then followed by more advanced coverage of dynamics and special relativity Each chapter includes problems ranging in difficulty from simple to challenging with solutions for solving problems Includes solutions for solving problems Numerous worked examples included throughout the book Mathematics is carefully explained and developed within a physics environment Sensitive to topics that can appear daunting or confusing **Nonlinear Analysis in Geometry and Topology** Themistocles M.

Rassias, 2000 **Experimental College Physics** Marsh William White, 1932 **Physics Mechanics and Heat** George P. Carney, 2010-05-17 **A Short Course in Differential Equations** Earl David Rainville, Phillip Edward Bedient, 1968

McGraw-Hill Encyclopedia of Science and Technology , 1960 **Chemical Engineering Catalog** , 1920

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