

Newton's 1st Law - the law of inertia

An object with no net force acting on it remains at rest or in uniform.

- Objects at rest tend to stay at rest.
- Objects in motion tend to move in a straight line at constant speed.

Inertia - A property of matter which resists changes in motion.

The best measure of an object's inertia is its mass.

Force - A push or pull.

Net forces cause the motion of an object to change.

Examples of Newton's 1st Law in Action:

When you're in a car brake
when you're turning in a car.

In the egg demonstration:

Why does the tray fly across the table? Force was applied toward the tray

Why do the cardboard cylinders go with it? The friction force

Why do the eggs drop straight down into the water? is acting like a glue.
The eggs drop straight down because of gravity.

Physics Challenge: Why doesn't a car in motion on a flat road stay in motion?

Friction forces, and air resistance.

Examples of Accelerated Motion:

speeding up : slowing down : starting :
changing direction : stopping : moving in a circle

Inertia resists acceleration.

A net force causes acceleration.

Newton's 2nd Law - the law of acceleration

When a net force is applied to an object the object will accelerate in the direction of that force.

Show What You Know:

1. A 2. C 3. C 4. B 5. D

Physics Fundamentals 4 01 Note Taking Guide

American Council on Education



Physics Fundamentals 4 01 Note Taking Guide:

The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services ,1984 The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy, Dept. of Defense

American Council on Education,1980 **A Manual of physics** James Arnold Crowther,1919 *Resources in Education*

,1998 The Publishers Weekly ,1926 **Courses and Degrees** Stanford University,1989 *Bulletin of Wake Forest*

University Wake Forest College,Wake Forest University,1918 **The Publishers' Trade List Annual** ,1917 **Popular**

Mechanics ,1942-03 Popular Mechanics inspires instructs and influences readers to help them master the modern world

Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the

latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Paperbound Books in Print 1995* Reed

Reference Publishing,R5ference Reed,1995-12 **Quantum Opto-Mechanics with Micromirrors** Simon

Gröblacher,2012-12-16 Quantum effects in macroscopic systems have long been a fascination for researchers Over the past

decade mechanical oscillators have emerged as a leading system of choice for many such experiments The work reported in

this thesis investigates the effects of the radiation pressure force of light on macroscopic mechanical structures The basic

system studied is a mechanical oscillator that is highly reflective and part of an optical resonator It interacts with the optical

cavity mode via the radiation pressure force Both the dynamics of the mechanical oscillation and the properties of the light

field are modified through this interaction The experiments use quantum optical tools such as homodyning and down

conversion with the goal of ultimately showing quantum behavior of the mechanical center of mass motion Of particular

value are the detailed descriptions of several novel experiments that pave the way towards this goal and are already shaping

the field of quantum optomechanics in particular optomechanical laser cooling and strong optomechanical coupling

Standard Methods of Chemical Analysis Wilfred Welday Scott,1917 *Manual of chemistry* William Simon,1916

Readers' Guide to Periodical Literature Anna Lorraine Guthrie,Bertha Tannehill,Neltje Marie Tannehill Shimer,1919 An
author subject index to selected general interest periodicals of reference value in libraries **Fundamentals of Photonics**

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LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and

switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and

plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated

MANUAL OF CHEMISTRY W. SIMON, DANIEL BASE,1923 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress,1968 *Teaching Undergraduate Science* Linda C. Hodges,2023-07-03 This book is written for all science or engineering faculty who have ever found themselves baffled and frustrated by their undergraduate students lack of engagement and learning The author an experienced scientist faculty member and educational consultant addresses these issues with the knowledge of faculty interests constraints and day to day concerns in mind Drawing from the research on learning she offers faculty new ways to think about the struggles their science students face She then provides a range of evidence based teaching strategies that can make the time faculty spend in the classroom more productive and satisfying Linda Hodges reviews the various learning problems endemic to teaching science explains why they are so common and persistent and presents a digest of key ideas and strategies to address them based on the research she has undertaken into the literature on the cognitive sciences and education Recognizing that faculty have different views about teaching different comfort levels with alternative teaching approaches and are often pressed for time Linda Hodges takes these constraints into account by first offering a framework for thinking purposefully about course design and teaching choices and then providing a range of strategies to address very specific teaching barriers whether it be students motivation engagement in class ability to problem solve their reading comprehension or laboratory research or writing skills Except for the first and last chapters the other chapters in this book stand on their own i e can be read in any order and address a specific challenge students have in learning and doing science Each chapter summarizes the research explaining why students struggle and concludes by offering several teaching options categorized by how easy or difficult they are to implement Some for example can work in a large lecture class without a great expenditure of time others may require more preparation and a more adventurous approach to teaching Each strategy is accompanied by a table categorizing its likely impact how much time it will take in class or out and how difficult it will be to implement Like scientific research teaching works best when faculty start with a goal in mind plan an approach building on the literature use well tested methodologies and analyze results for future trials Linda Hodges message is that with such intentional thought and a bit of effort faculty can succeed in helping many more students gain exciting new skills and abilities whether those students are potential scientists or physicians or entrepreneurs Her book serves as a mini compendium of current research as well as a protocol manual a readily accessible guide to the literature the best practices known to date and a framework for thinking about teaching

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The 2004 Guide to the Evaluation of Educational Experiences in the Armed Services

American Council on Education, American Council on Education Staff, 2004 For more than a half century the Guide to the Evaluation of Education Experiences in the Armed Services has been the standard reference work for recognizing learning acquired in military life Since 1942 ACE and has worked cooperatively with the US Department of Defense the Armed Services and the US Coast Guard in helping hundreds of thousands of individuals earn academic credit for learning achieved while serving their country

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