

Name:

Block:

Date:



Science 10
CALCULATING FORCE WORKSHEET

Calculate the force in the following problems by using the equation:

Force = mass x acceleration

$$F = m a$$

Be sure to:

- (1) ALWAYS write the equation
- (2) plug in the numbers and units,
- (3) give the answer with the correct units.

$$m = \frac{F}{a} \quad a = \frac{F}{m}$$

7. A man hits a golf ball (0.2 kg) which accelerates at a rate of 20 m/s^2 . What amount of force acted on the ball?

$$F = ma$$

$$F = (0.2 \text{ kg}) \left(20 \frac{\text{m}}{\text{s}^2} \right) = \boxed{4 \text{ N}}$$

8. You give a shopping cart a shove down the aisle. The cart is full of groceries and has a mass of 18 kg. The cart accelerates at a rate of 3 m/s^2 . How much force did you exert on the cart?

$$F = ma$$

$$= (18 \text{ kg}) \left(3 \frac{\text{m}}{\text{s}^2} \right) = \boxed{54 \text{ N}}$$

9. The wind pushes a paper cup along the sand at a beach. The cup has a mass of 0.025 kg and accelerates at a rate of 5 m/s^2 . How much force is the wind exerting on the cup?

$$F = ma$$

$$= (0.025 \text{ kg}) \left(5 \frac{\text{m}}{\text{s}^2} \right) = \boxed{0.125 \text{ N}}$$

10. An object accelerates 3.0 m/s^2 when a force of 6.0 newtons is applied to it. What is the mass of the object?

$$m = \frac{F}{a} = \frac{6.0 \text{ N}}{3.0 \frac{\text{m}}{\text{s}^2}} = \boxed{2.0 \text{ kg}}$$

11. An object with a mass of 20.0 kg has a force of 5.0 newtons applied to it. What is the resulting acceleration of the object?

$$a = \frac{F}{m} = \frac{5.0 \text{ N}}{20.0 \text{ kg}} = \boxed{0.25 \frac{\text{m}}{\text{s}^2}}$$

Pearson Prentice Hall Answer Key Newtons Laws

CL Gary



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Ellis, Pearson/Prentice Hall, 2003-12 Prentice Hall Science Anthea Maton, Jill D. Wright, Jean Hopkins, Susan Johnson, David Lahart, Maryanna Quon Warner, 1994 **Process Variations and Probabilistic Integrated Circuit Design** Manfred

Dietrich, Joachim Haase, 2011-11-20 Uncertainty in key parameters within a chip and between different chips in the deep sub micron area plays a more and more important role As a result manufacturing process spreads need to be considered during the design process Quantitative methodology is needed to ensure faultless functionality despite existing process variations within given bounds during product development This book presents the technological physical and mathematical fundamentals for a design paradigm shift from a deterministic process to a probability orientated design process for microelectronic circuits Readers will learn to evaluate the different sources of variations in the design flow in order to establish different design variants while applying appropriate methods and tools to evaluate and optimize their design

Student Study Guide & Selected Solutions Manual David D. Reid, 2007 **Econophysics and Physical Economics** Peter Richmond, Jürgen Mimkes, Stefan Hutzler, 2013-09-05 This book summarises progress in the understanding of financial markets and economics based on the established methodology of statistical physics It offers a new approach to the fundamentals of economics that offers the potential for increased insight and understanding It should be of interest to all serious students of the subject *Fundamentals of Numerical Computation* Tobin A Driscoll, Richard J. Braun, 2022-08-24 Julia is an open source and fast growing programming language for scientific computing that offers clarity and ease of use for beginners but also speed and power for advanced applications Fundamentals of Numerical Computation Julia Edition provides a complete solution for teaching Julia in the context of numerical methods It introduces the mathematics and use of algorithms for the fundamental problems of numerical computation linear algebra finding roots approximating data and functions and solving differential equations A clear progression from simple to more advanced methods allows for use in either a one semester course or a two semester sequence The book includes more than 40 functions and 160 examples fully coded in Julia and available for download online supplemental content including tested source materials for student projects and in class labs related to every chapter and over 600 exercises evenly split between mathematical and computational work and solutions to most exercises for instructors **Student Study Guide and Solutions Manual** Bo Lou, 2002-08

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Books and Pamphlets Including Serials and Contributions to Periodicals July December **Colloids and Interfaces in Oil Recovery** Spencer Taylor, 2019-06-21 It is well known that colloid and interface science and petroleum production are inextricably linked Whether in the reservoir with its porous structure or during recovery crude oil is intimately associated with rock surfaces and with water often in the form of emulsions This situation leads to highly complex systems comprising multiple colloids and interfaces which require to be optimized if oil is to be recovered efficiently both in terms of economic cost and with due concern for the environment This book contains a compilation of contemporary research topics which illustrate various aspects of the importance of colloids and interfaces in crude oil recovery through modifying conditions between the rock crude oil and water in the reservoir in order to achieve improved oil recovery The specific topics covered relate both to conventional oils in which waterflooding is the most common secondary and tertiary means of recovery and to non conventional heavy oil and natural bitumen which require thermal recovery methods owing to their high viscosity

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flowing complex fluids *The Century Dictionary and Cyclopedia: The Century dictionary ... prepared under the superintendence of William Dwight Whitney ... rev. & enl. under the superintendence of Benjamin E. Smith*, 1911 Physics

James S. Walker, 2007 This text for courses in introductory algebra based physics features a combination of pedagogical tools exercises worked examples active examples and conceptual checkpoints **Fundamentals of Electromagnetics for Electrical and Computer Engineering** Nannapaneni Narayana Rao, 2009 Fundamentals of Electromagnetics for Electrical and Computer Engineering First Edition is appropriate for all beginning courses in electromagnetics in both electrical engineering and computer engineering programs This is ideal for anyone interested in learning more about electromagnetics Dr N Narayana Rao has designed this compact one semester textbook in electromagnetics to fully reflect the evolution of technologies in both electrical and computer engineering This book's unique approach begins with Maxwell's equations for time varying fields first in integral and then in differential form and also introduces waves at the outset Building on these core concepts Dr Rao treats each category of fields as solutions to Maxwell's equations highlighting the frequency behavior of physical structures Next he systematically introduces the topics of transmission lines waveguides and antennas To keep the subject's geometry as simple as possible while ensuring that students master the physical concepts and mathematical tools they will need Rao makes extensive use of the Cartesian coordinate system Topics covered in this book include uniform plane wave propagation material media and their interaction with uniform plane wave fields essentials of transmission line analysis both frequency and time domain metallic waveguides and Hertzian dipole field solutions Material on cylindrical and spherical coordinate systems is presented in appendices where it can be studied whenever relevant or convenient Worked examples are presented throughout to illuminate and in some cases extend key concepts each chapter also contains a summary and review questions Note this book provides a one semester alternative to Dr Rao's classic textbook for two semester courses Elements of Engineering Electromagnetics now in its Sixth Edition

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