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#### Chapter 1

Due: 11:59pm on Sunday, January 20, 2019

To understand how points are awarded, read the Grading Policy for this assignment.

#### Exercise 1.10

Description: The following conversions occur frequently in physics and are very useful. (a) Use 1 (mi)=5280 (ft) and 1 h = 3600 s to convert 50 mph to units of ft/s. (b) The acceleration of a freely falling object is 32 (ft)/s\*2 . Use 1 (ft) = 30.48 (...

The following conversions occur frequently in physics and are very useful.

#### Part A.

Use 1 mi = 5280 ft and 1 h = 3600 s to convert 60 mph to units of ft/s.

Express your answer using two significant figures.

ANSWER:

88 ft/s

#### Part B

The acceleration of a freely falling object is  $32 \, \mathrm{ft/s^2}$ . Use  $1 \, \mathrm{ft} = 30.48 \, \mathrm{cm}$  to express this acceleration in units of  $\mathrm{m/s^2}$ .

Express your answer using two significant figures.

ANSWER:

 $9.6 \cdot m/s^2$ 

#### Part C

The density of water is  $1.0 \, \mathrm{g/cm^3}$ . Convert this density to units of  $\mathrm{kg/m^3}$ .

Express your answer using two significant figures.

ANSWER:

1000 kg/m<sup>3</sup>

#### Exercise 1.34

Description: (a) Find the magnitude of the vector A\_1\_vec represented by the pair of components A\_x\_1 = A\_x\_1, A\_y\_1 = A\_y\_1. (b) Let the direction of a vector be the angle that the vector makes with the +x-axis, measured counterclockwise from that axis...

#### Part A.

Find the magnitude of the vector  $A_1$  represented by the pair of components  $A_{n_1}=-8.30~{
m cm}$  ,  $A_{n_1}=1.90~{
m cm}$  .

ANSWER:

# **Mastering Physics Chapter 1 Solutions**

**Padhraic Smyth** 

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Mastering Quantum Mechanics Barton Zwiebach, 2022-04-12 A complete overview of quantum mechanics covering essential concepts and results theoretical foundations and applications This undergraduate textbook offers a comprehensive overview of quantum mechanics beginning with essential concepts and results proceeding through the theoretical foundations that provide the field's conceptual framework and concluding with the tools and applications students will need for advanced studies and for research Drawn from lectures created for MIT undergraduates and for the popular MITx online course Mastering Quantum Mechanics the text presents the material in a modern and approachable manner while still including the traditional topics necessary for a well rounded understanding of the subject As the book progresses the treatment gradually increases in difficulty matching students increasingly sophisticated understanding of the material Part 1 covers states and probability amplitudes the Schr dinger equation energy eigenstates of particles in potentials the hydrogen atom and spin one half particles Part 2 covers mathematical tools the pictures of quantum mechanics and the axioms of quantum mechanics entanglement and tensor products angular momentum and identical particles Part 3 introduces tools and techniques that help students master the theoretical concepts with a focus on approximation methods 236 exercises and 286 end of chapter problems 248 figures Mastering Numbers Andrew Jeffrey, 2018-12-18 The perfect antidote to numbers phobia this clear concise guide explains everything you need to know about arithmetic fractions statistics probability algebra and geometry We all use numbers every day yet many people are uncomfortable with them finding them daunting and difficult Others treat numbers as a practical tool they can handle guite well while failing to appreciate their most amazing qualities This book is the antidote to number phobia As with learning to swim you ll never look back these are skills you ll use for the rest of your life If you think you re good with numbers already you ll soon discover what you ve been missing the endless fascination and beauty of numbers and at the more practical level a whole range of techniques and shortcuts you never knew existed Mastering Numbers brings the subject to life replacing the atmosphere of the classroom with the wonder of the magician's workshop In learning to enjoy numbers we discover a multitude of practical skills everything from understanding statistics and the odds gamblers face to the interest rates on savings and ways to maximise your returns Never again need you flounder in a business meeting or an encounter with your bank manager and if the chance arises to chat to him more casually you could impress with stories about pi prime numbers Fermat s theorem and much else besides Full of enjoyable exercises puzzles demonstrations and self testing interludes this is a book to instruct and give pleasure

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understanding of its behavior The chapter also covers the crucial role of the refractive index and reflection coefficient in guiding light through the fiber core as well as the intricacies of light propagation as it interacts with varying refractive indices within the fiber Chapter 3 focuses on the challenges encountered during light propagation in optical fibers It includes a comprehensive examination of the fiber optic cable structure exploring its various components. The chapter also explores the intricacies of a fiber optic communication system with a particular focus on the crucial role of Total Internal Reflection in guiding light along the desired path and the concept of attenuation a primary challenge in fiber optic communication and how it affects signal strength Chapter 4 takes a closer look at the design protection and environment specific solutions employed in fiber optic cables It offers a scientific exploration of fiber optic cable design analyzing the different components and their contributions to overall functionality The chapter also provides a detailed focus on outdoor cables fiber optic connectors the intricate details of fiber optic connectors highlighting the importance of precision engineering durable materials tools and splicing equipment for fiber optic network installation and maintenance Chapter 5 introduces the essential elements of a fiber optic communication system the light sources and detectors The chapter provides a foundational overview of different fiber optic cable categories and dives into the concept of refractive index profiles and its crucial role in determining light propagation characteristics It also explores the underlying principles of light emission the role of energy bands and the fundamental differences between LEDs and lasers as well as an in depth analysis of edge emitting including their quantum efficiency and light generation mechanisms and scientific breakdown of Laser Diodes and Avalanche Photodiodes Chapter 6 delves into the realm of Dense Wave Division Multiplexing DWDM a revolutionary technology that has significantly increased the capacity of fiber optic communication networks. The chapter offers a clear introduction to the concept of WDM and its relationship with the structure of optical fibers It also explores various passive and active optical components the science behind active optical components fiber optic transmission systems and microwave over fiber optics links and the key technologies driving DWDM advancements Advanced Numerical Methods with Matlab 1 Bouchaib Radi, Abdelkhalak El Hami, 2018-03-15 Most physical problems can be written in the form of mathematical equations differential integral etc Mathematicians have always sought to find analytical solutions to the equations encountered in the different sciences of the engineer mechanics physics biology etc These equations are sometimes complicated and much effort is required to simplify them In the middle of the 20th century the arrival of the first computers gave birth to new methods of resolution that will be described by numerical methods They allow solving numerically as precisely as possible the equations encountered resulting from the modeling of course and to approach the solution of the problems posed The approximate solution is usually computed on a computer by means of a suitable algorithm The objective of this book is to introduce and study the basic numerical methods and those advanced to be able to do scientific computation. The latter refers to the implementation of approaches adapted to the treatment of a scientific problem arising from physics meteorology pollution etc or engineering structural mechanics fluid mechanics signal processing etc. *Quantum Theory of Materials* Efthimios Kaxiras, John D. Joannopoulos, 2019-06-06 This accessible new text introduces the theoretical concepts and tools essential for graduate level courses on the physics of materials in condensed matter physics physical chemistry materials science and engineering and chemical engineering Topics covered range from fundamentals such as crystal periodicity and symmetry and derivation of single particle equations to modern additions including graphene two dimensional solids carbon nanotubes topological states and Hall physics Advanced topics such as phonon interactions with phonons photons and electrons and magnetism are presented in an accessible way and a set of appendices reviewing crucial fundamental physics and mathematical tools makes this text suitable for students from a range of backgrounds Students will benefit from the emphasis on translating theory into practice with worked examples explaining experimental observations applications illustrating how theoretical concepts can be applied to real research problems and 242 informative full color illustrations End of chapter exercises are included for homework and self study with solutions and lecture slides for instructors available online U.S. Government Research & Development Reports ,1971

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