

Physics

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(Chapter 14) (Oscillations) (Exercises)
(Class 11)

Answer 14.13:

(a) When a force F , is applied to the free end of the spring, an extension l , is produced. For the maximum extension, it can be written as:

$$F = kl$$

Where, k is the spring constant.

Hence, the maximum extension produced in the spring, $l = \frac{F}{k}$

(b) For the two block system:

The displacement (x) produced in this case is $x = \frac{1}{2}$

Net force, $F = +2kx = 2k \cdot \frac{1}{2}$

$$\therefore l = \frac{F}{K}$$

For the one block system:

For mass (m) of the block, force is written as: $F = ma = m \frac{d^2x}{dt^2}$

Where, x is the displacement of the block in time t .

$$\therefore m \frac{d^2x}{dt^2} = -kx$$

It is negative because the direction of elastic force is opposite to the direction of displacement.

$$\frac{d^2x}{dt^2} = -\left(\frac{k}{m}\right)x = -\omega^2x, \text{ Where, } \omega^2 = \frac{k}{m}$$

Where, ω is angular frequency of the oscillation

$$\therefore \text{Time period of the oscillation, } T = \frac{2\pi}{\omega} = \frac{2\pi}{\sqrt{\frac{k}{m}}} = 2\pi\sqrt{\frac{m}{k}}$$

For the two block system:

$$F = m \frac{d^2x}{dt^2} \Rightarrow m \frac{d^2x}{dt^2} = -2kx$$

It is negative because the direction of elastic force is opposite to the direction of displacement.

Where,

$$\text{Angular frequency, } \omega = \sqrt{\frac{2k}{m}}$$

$$\therefore \text{Time period, } T = \frac{2\pi}{\omega} = 2\pi\sqrt{\frac{m}{2k}}$$

Chapter 14 Physics Answers

Christian G. Meyer



Chapter 14 Physics Answers:

Answer Manual to Accompany Physics, Volumes One and Two, Fourth Edition, David Halliday, Robert Resnick, Kenneth S. Krane Edward Derringham, 1992 *Handbook on Thermal Hydraulics in Water-Cooled Nuclear Reactors*

Francesco D'Auria, Yassin A. Hassan, 2024-07-29 *Handbook on Thermal Hydraulics of Water Cooled Nuclear Reactors Volume 2 Modelling* includes all new chapters which delve deeper into the topic adding context and practical examples to help readers apply learnings to their own setting Topics covered include experimental thermal hydraulics and instrumentation numerics scaling and containment in thermal hydraulics as well as a title dedicated to good practices in verification and validation This book will be a valuable reference for graduate and undergraduate students of nuclear or thermal engineering as well as researchers in nuclear thermal hydraulics and reactor technology engineers working in simulation and modeling of nuclear reactors and more In addition nuclear operators code developers and safety engineers will also benefit from the practical guidance provided Presents a comprehensive analysis on the connection between nuclear power and thermal hydraulics Includes end of chapter questions quizzes and exercises to confirm understanding and provides solutions in an appendix Covers applicable nuclear reactor safety considerations and design technology throughout *Fundamentals of Physics, Solutions Manual* Edward Derringham, David Halliday, Robert Resnick, 1988-08-30 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 *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science*, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Science as It Could Have Been** Lena Soler, Emiliano Trizio, Andrew Pickering, 2016-02-19 Could all or part of our taken as established scientific conclusions theories experimental data ontological commitments and so forth have been significantly different Science as It Could Have Been focuses on a crucial issue that contemporary science studies have often neglected the issue of contingency within science It considers a number of case studies past and present

from a wide range of scientific disciplines physics biology geology mathematics and psychology to explore whether components of human science are inevitable or if we could have developed an alternative successful science based on essentially different notions conceptions and results Bringing together a group of distinguished contributors in philosophy sociology and history of science this edited volume offers a comprehensive analysis of the contingency inevitability problem and a lively and up to date portrait of current debates in science studies

An Introduction to Physics Harvard Project Physics,1968

Physics Henry Semat,Robert Katz,1958

Physics Physical Science Study Committee,1960

Optics in Our Time Mohammad D. Al-Amri,Mohamed El-Gomati,M. Suhail Zubairy,2016-12-12

Light and light based technologies have played an important role in transforming our lives via scientific contributions spanned over thousands of years In this book we present a vast collection of articles on various aspects of light and its applications in the contemporary world at a popular or semi popular level These articles are written by the world authorities in their respective fields This is therefore a rare volume where the world experts have come together to present the developments in this most important field of science in an almost pedagogical manner This volume covers five aspects related to light The first presents two articles one on the history of the nature of light and the other on the scientific achievements of Ibn Haitham Alhazen who is broadly considered the father of modern optics These are then followed by an article on ultrafast phenomena and the invisible world The third part includes papers on specific sources of light the discoveries of which have revolutionized optical technologies in our lifetime They discuss the nature and the characteristics of lasers Solid state lighting based on the Light Emitting Diode LED technology and finally modern electron optics and its relationship to the Muslim golden age in science The book s fourth part discusses various applications of optics and light in today s world including biophotonics art optical communication nanotechnology the eye as an optical instrument remote sensing and optics in medicine In turn the last part focuses on quantum optics a modern field that grew out of the interaction of light and matter Topics addressed include atom optics slow stored and stationary light optical tests of the foundation of physics quantum mechanical properties of light fields carrying orbital angular momentum quantum communication and Wave Particle dualism in action

The GRE Test For Dummies® Suzee Vlk,Michelle Rose Gilman,Veronica Saydak,2009-04-20

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