

Chapter 26 Sound

Exercises

26.1 The Origin of Sound (page 515)

Match each sound source with the part that vibrates.

Sound Source	Vibrating Part
<u> a </u> 1. violin	a. strings
<u> b </u> 2. your voice	b. reed
<u> d </u> 3. saxophone	c. column of air at the mouthpiece
<u> c </u> 4. flute	d. vocal chords

5. Sound waves are a type of longitudinal wave.

6. What normally determines the frequency of sound waves?

The frequency of sound waves produced normally have the same frequency as the vibrating source.

7. Define pitch.

Pitch is our subjective impression about the frequency of sound.

8. As people grow older, they often have more trouble hearing sounds at the high end of the range of frequencies.

9. Sound waves with frequencies below the normal range are infrasonic waves.

10. Sound waves with frequencies above the normal range are ultrasonic waves.

26.2 Sound in Air (pages 515–517)

11. Is the following sentence true or false? Sound vibrates the air much like particles move back and forth along a stretched spring. true

12. A pulse of compressed air is called a compression, and a pulse of low-pressure air is called a rarefaction.

13. For all wave motion, it is not the medium that travels, but a pulse that travels.

14. Explain what happens when a tuning fork is struck against one end of an open tube.

When the prong is struck, a compression enters the tube. When the prong swings away, a rarefaction follows the compression. A series of compressions and rarefactions is produced within the tube as the fork continues to vibrate.

26.3 Media That Transmit Sound (page 517)

15. What did Native Americans learn long ago when they put their ears to the ground?

They could hear the hoofbeats of distant horses through the ground before they could hear them through the air.

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Answers Exercises Chapter

Prem S. Mann



Answers Exercises Chapter :

Exercises with Solutions in Radiation Physics Bo N. Nilsson, 2015-11-21 The textbook begins with exercises related to radioactive sources and decay schemes The problems covered include series decay and how to determine the frequency and energy of emitted particles in disintegrations The next chapter deals with the interaction of ionizing radiation including the treatment of photons and charged particles The main focus is on applications based on the knowledge of interaction to be used in subsequent work and courses The textbook then examines detectors and measurements including both counting statistics and properties of pulse detectors The chapter that follows is dedicated to dosimetry which is a major subject in medical radiation physics It covers theoretical applications such as different equilibrium situations and cavity theories as well as experimental dosimetry including ionization chambers and solid state and liquid dosimeters A shorter chapter deals with radiobiology where different cell survival models are considered The last chapter concerns radiation protection and health physics Both radioecology and radiation shielding calculations are covered The textbook includes tables to simplify the solutions of the exercises but the reader is mainly referred to important websites for importing necessary data

Surface Science Kurt W. Kolasinski, 2012-04-30 Surface science has evolved from being a sub field of chemistry or physics and has now established itself as an interdisciplinary topic Knowledge has developed sufficiently that we can now understand catalysis from a surface science perspective No where is the underpinning nature of surface science better illustrated than with nanoscience Now in its third edition this successful textbook aims to provide students with an understanding of chemical transformations and the formation of structures at surfaces The chapters build from simple to more advanced principles with each featuring exercises which act not only to demonstrate concepts arising in the text but also to form an integral part of the book with the last eight chapters featuring worked solutions This completely revised and expanded edition features More than 100 new pages of extensive worked solutions New topics including Second harmonic generation SHG Sum Frequency Generation SFG at interfaces and capillary waves An expanded treatment of charge transfer and carbon based materials including graphene Extended Frontiers and Challenges sections at the end of each chapter This text is suitable for all students taking courses in surface science in Departments of Chemistry Physics Chemical Engineering and Materials Science as well as for researchers and professionals requiring an up to date review of the subject

Beginning iOS 4 Application Development Wei-Meng Lee, 2010-09-24 The ideal starting point for creating apps using iOS 4 Written by an experienced Apple developer and trainer this full color reference serves as an ideal jumping point for creating applications for Apple s iOS 4 that runs on the iPhone iPod Touch and iPad In addition to in depth coverage of the iOS SDK the book walks you through the various core aspects of iPhone and iPad development You ll learn how to take advantage of the tools provided by XCode and you ll benefit from a solid introduction to Objective C which allows you to have a smooth transition to iPhone development from another platform Offers a solid foundation for creating applications for Apple s iOS 4

Covers all the new features of iOS 4 and provides a new applications template for developing iPad and iPhone apps
Addresses the new PopoverView for iPad apps Shows how to develop background applications which is one of the new features in iOS 4 Beginning iOS 4 Application Development is your ultimate resource for creating applications for Apple s iOS 4

Turbo Pascal Nell Dale, Chip Weems, 1997-08 Textbook for students studying software design [Introductory Statistics](#)
Prem S. Mann, 2010-02-02 When it comes to learning statistics Mann delivers the information that business professionals need The new edition incorporates the most up to date methods and applications to present the latest information in the field It focuses on explaining how to apply the concepts through case studies and numerous examples Data integrated throughout the chapters come from a wide range of disciplines and media sources Over 200 examples are included along with marginal notes and step by step solutions The Decide for Yourself feature also helps business professionals explore real world problems and solutions

Computer Organization and Design David A. Patterson, John L. Hennessy, 2004-08-07 This best selling text on computer organization has been thoroughly updated to reflect the newest technologies Examples highlight the latest processor designs benchmarking standards languages and tools As with previous editions a MIPS processor is the core used to present the fundamentals of hardware technologies at work in a computer system The book presents an entire MIPS instruction set instruction by instruction the fundamentals of assembly language computer arithmetic pipelining memory hierarchies and I O A new aspect of the third edition is the explicit connection between program performance and CPU performance The authors show how hardware and software components such as the specific algorithm programming language compiler ISA and processor implementation impact program performance Throughout the book a new feature focusing on program performance describes how to search for bottlenecks and improve performance in various parts of the system The book digs deeper into the hardware software interface presenting a complete view of the function of the programming language and compiler crucial for understanding computer organization A CD provides a toolkit of simulators and compilers along with tutorials for using them For instructor resources click on the grey companion site button found on the right side of this page This new edition represents a major revision New to this edition Entire Text has been updated to reflect new technology 70% new exercises Includes a CD loaded with software projects and exercises to support courses using a number of tools A new interior design presents defined terms in the margin for quick reference A new feature Understanding Program Performance focuses on performance from the programmer s perspective Two sets of exercises and solutions For More Practice and In More Depth are included on the CD Check Yourself questions help students check their understanding of major concepts Computers In the Real World feature illustrates the diversity of uses for information technology More detail below

Human Resource Management (Third Edition) , **Workbook for McCurnin's Clinical Textbook for Veterinary Technicians - E-Book** Joanna M. Bassert, 2013-04-01 Use this workbook to reinforce your understanding and improve your test scores Designed to accompany McCurnin s Clinical Textbook for Veterinary Technicians

8th Edition this workbook provides test questions and review exercises to help you apply what you've learned. The workbook corresponds to the textbook chapter for chapter Review exercises include Chapter activities Case studies Photo quizzes Matching exercises Word searches Crossword puzzles Superclues True false multiple choice and short answer review questions. The answer key is on EVOLVE. Applied Sport Management Skills Robert N. Lussier, David C. Kimball, 2013-10-21 Applied Sport Management Skills Second Edition With Web Study Guide uses the four management functions of planning organizing leading and controlling to teach students how to become strong leaders and managers in the world of sport. This comprehensive and fully updated text provides an overview of management topics with a unique focus on developing the skills necessary for managing sport organizations. The text shows how to approach and use unmatched learning tools help students put into practice what they will be doing as sport managers including creative problem solving strategic planning and developing the skills to lead organize and delegate. By taking principles and concepts presented in the text and applying them to professional practice students will be able to assess how their interests and skills can contribute to the growing field of sport management. Applied Sport Management Skills Second Edition has been thoroughly updated to enhance the educational experience. Two new features have been added to the second edition Social Media Exercises expose students to the expanding role of social media in managing a sport organization and Starting a Sport Business features encourage students to explore the real world needs of sport entrepreneurship such as developing an organizational structure formulating ideas on leading employees and controlling the financial aspects of their sport business. These new tools complement popular features from the first edition to help students understand leadership and management in the sport industry. Reviewing Their Game Plan chapter opening scenarios revisited throughout each chapter provide a cohesive thread to keep students focused on how sport managers use the concepts on the job. Chapter closing case studies questions and exercises help students apply knowledge to specific situations. Applying the Concept question boxes provide an opportunity for critical thinking by asking how specific concepts are relevant to a sport situation. Time Out boxes demonstrate how text concepts relate to students' actual experience in sports including part time full time and summer jobs. Self assessment exercises offer insight into students' strengths and weaknesses. Behavior models provide step by step guidance on handling day to day situations that students will face in the sport setting. Developing Your Skills features learning outcomes and key terms are revisited throughout the chapter to reinforce key points. Instructor resources have been updated with this edition and the expanded instructor guide provides advice on using the student web study guide with the book material to better engage students. The web study guide is better organized and integrated with the text to help students use the learning activities in a dynamic and interactive setting. Exercises appearing in the book are correspondingly numbered in the web study guide where students may test their understanding with quizzes and other activities that further reinforce important concepts. Many activities in the web study guide can be completed as graded class assignments whereas others provide

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C# Primer Plus Klaus Michelsen,2002 C Primer Plus teaches the C programming language and relevant parts of the NET platform from the ground up walking you through the basics of object oriented programming important programming techniques and problem solving while providing a thorough coverage of C s essential elements such as classes objects data types loops branching statements arrays and namespaces In early chapters guided tours take you sightseeing to the main attractions of C and provide a fast learning path that enables you to quickly write simple C programs Your initial programming skills are then gradually expanded through the many examples case studies illustrations review questions and programming exercises to include powerful concepts like inheritance polymorphism interfaces and exception handling along with C s most innovative features such as properties indexers delegates and events With C Primer Plus s dual emphasis on C as well as fundamental programming techniques this friendly tutorial will soon make you a proficient C programmer building Windows applications on the NET platform

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