

Physics

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(Chapter 9) (Mechanical Properties of Solids) (Additional Exercises)

(Class 11)

Question 9.21:

The Mariana trench is located in the Pacific Ocean, and at one place it is nearly eleven km beneath the surface of water. The water pressure at the bottom of the trench is about 1.1×10^8 Pa. A steel ball of initial volume 0.32 m^3 is dropped into the ocean and falls to the bottom of the trench. What is the change in the volume of the ball when it reaches to the bottom?

Answer 9.21:

Water pressure at the bottom, $p = 1.1 \times 10^8$ Pa

Initial volume of the steel ball, $V = 0.32 \text{ m}^3$

Bulk modulus of steel, $B = 1.6 \times 10^{11} \text{ Nm}^{-2}$

The ball falls at the bottom of the Pacific Ocean, which is 111 km beneath the surface.

Let the change in the volume of the ball on reaching the bottom of the trench be ΔV .

Bulk modulus,

$$B = \frac{p}{\frac{\Delta V}{V}}$$

$$\Delta V = \frac{B}{pV}$$

$$= \frac{1.1 \times 10^8 \times 0.32}{1.6 \times 10^{11}} = 2.2 \times 10^{-4} \text{ m}^3$$

Therefore, the change in volume of the ball on reaching the bottom of the trench is $2.2 \times 10^{-4} \text{ m}^3$.



Physics Chapter 9 Study Guide Answers

Raymond A. Serway, Steven Van Wyk



Physics Chapter 9 Study Guide Answers:

Study Guide and Student Solutions Manual for Wilson College Physics David Cordes, Jerry D. Wilson, John Kinard, 1990 This reader friendly book presents the fundamental principles of physics in a clear and concise manner Emphasizing conceptual understanding as the basis for mastering a variety of problem solving tools it provides a wide range of relevant applications and illustrative examples This book discusses mechanics thermodynamics and oscillations and wave motion For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real world situations devices and topics

Student Study Guide and Solutions Manual for Gener Al Physics Morton M. Sternheim, 1986

Excel Science Study Guide, Years 9-10 Will Marchment, 2004 The book contains coverage of five major topic areas in the NSW School Certificate test Energy Force and Motion Atoms Elements and Compounds Structure and Function of Living Things Earth and Space Ecosystems Resources and Technology a chapter on Investigations and Problem Solving in Science to help with practical skills revision questions and chapter tests to help you remember important information a glossary and summary in each section of the book diagrams and illustrations to help your understanding a section to help you prepare for the School Certificate test a sample School Certificate test paper with answers answers to all questions

Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway Raymond A. Serway, Steven Van Wyk, 1996

Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers John R. Gordon, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions

Student Study Guide & Selected Solutions Manual David D. Reid, 2007

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An Introduction to Physics Harvard Project Physics, 1968

Student Study Guide & Selected Solutions Manual Frank L. H Wolfs, 2008

Physics, , Student Study Guide John D. Cutnell, Kenneth W. Johnson, 1997-09-04 Describes applications in medicine automobile features transportation home entertainment athletics household applications information processing detection devices camera technology and many more Contains numerous discussions and examples that focus on human physiology including muscle forces blood pressure the refraction of light by

the eye and many others Jill Herzog, 2012 Rev ed of Appleton Lange review for the ultrasonography examination edited by Carol A Krebs Charles S Odwin Arthur C Fleischer c2004 **Student Study Guide for General Physics with Bioscience Essays** Jerry B. Marion, 1978 **Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2** Stanley A. Williams, 1978 Student Study Guide and Selected Solutions Manual, Volume 2 Bo Lou, 2006-05 *CompTIA RFID+ Study Guide* Patrick J. Sweeney, II, 2006-12-26 This comprehensive study guide thoroughly covers the CompTIA RFID exam the only certification offered for radio frequency identification RFID the technology that is rapidly gaining popularity and is expected to completely replace bar codes Your study will focus on interrogation zone basics testing and troubleshooting standards and regulations tag knowledge design selection installation site analysis RF physics and RFID peripherals The accompanying CD ROM provides two bonus exams a detailed glossary of terms and a searchable PDF of the book Study Guide for Sartain, North, Strange, and Chapman: Psychology: Understanding Human Behavior Virginia Crawford Chancey, 1958 *Revise GCSE Physical Education (2010 Exams Only)* Don E. Webster, 2005 New editions of the bestselling Revise GCSE Study Guides with a fresh new look and updated content in line with curriculum changes Revise GCSE contains everything students need to achieve the GCSE grade they want Each title has been written by a GCSE examiner to help boost students learning and focus their revision Each title provides complete curriculum coverage with clearly marked exam board labels so students can easily adapt the content to fit the course they are studying Revise GCSE is an ideal course companion throughout a student s GCSE study and acts as the ultimate Study Guide throughout their revision **Concepts, Problems, and Solutions in General Physics** Raymond A. Serway, 1975 **Challenging Problems for Physics** Boris Korsunsky, Raymond A. Serway, 1995 *Physics for Scientists and Engineers* Raymond A. Serway, 2004 NOT SOLD SEPARATELY PHYSICS FOR SCIENTISTS AND ENGINEERS 6th maintains the Serway traditions of concise writing for the students carefully thought out problem sets and worked examples and evolving educational pedagogy This edition introduces a new co author Dr John Jewett at Cal Poly Pomona known best for his teaching awards and his role in the recently published PRINCIPLES OF PHYSICS 3rd also written with Ray Serway This authoritative text along with the newly enhanced supplemental package for instructors and students provides students with the best in introductory physics education Providing students with the tools they need to succeed in introductory physics the 6th edition of this authoritative text features unparalleled media integration and a newly enhanced supplemental package for instructors and students

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