

CHAPTER 20: ELECTRIC CURRENT, RESISTANCE, AND OHM'S LAW

20.1 CURRENT

1. *What is the current in milliamperes produced by the solar cells of a pocket calculator through which 4.00 C of charge passes in 4.00 h?*

Solution Using the equation $I = \frac{\Delta Q}{\Delta t}$, we can calculate the current given in the charge and the time, remembering that $1 \text{ A} = 1 \text{ C/s}$:

$$I = \frac{\Delta Q}{\Delta t} = \frac{4.00 \text{ C}}{4.00 \text{ h} \left(\frac{1 \text{ h}}{3600 \text{ s}} \right)} = 2.778 \times 10^{-4} \text{ A} = \underline{0.278 \text{ mA}}$$

7. *(a) A defibrillator sends a 6.00-A current through the chest of a patient by applying a 10,000-V potential as in Figure 20.38. What is the resistance of the path? (b) The defibrillator paddles make contact with the patient through a conducting gel that greatly reduces the path resistance. Discuss the difficulties that would ensue if a larger voltage were used to produce the same current through the patient, but with the path having perhaps 50 times the resistance. (Hint: The current must be about the same, so a higher voltage would imply greater power. Use this equation for power: $P = I^2 R$.)*

Solution (a) Using the equation $I = \frac{V}{R}$, we can calculate the resistance of the path given the current and the potential: $I = \frac{V}{R}$, so that

$$R = \frac{V}{I} = \frac{10,000 \text{ V}}{6.00 \text{ A}} = 1.667 \times 10^3 \Omega = \underline{1.67 \text{ k}\Omega}$$

(b) If a 50 times larger resistance existed, keeping the current about the same, the

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John Merrill



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Instructor's Manual with Abbreviated Solutions to Accompany University Physics Alvin Hudson, 1982

Fundamentals of Physics, Student's Solutions Manual David Halliday, J. Richard Christman, 1997 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning *Fundamentals of Physics, , Student's Solutions Manual* J. Richard Christman, David Halliday, Edward Derrin, 2001 No other book on the market today can match the success of Halliday Resnick and Walker's *Fundamentals of Physics* In a breezy easy to understand style the book offers a solid understanding of fundamental physics concepts and helps readers apply this conceptual understanding to quantitative problem solving **Solutions Manual for Giancoli Physics, Principles with Applications** Keith H. Brown, 1980

Physics John D. Cutnell, Kenneth W. Johnson, 2009-09-08 Designed for medical professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution Solutions Manual for Fundamentals of Physics John Merrill, 1970 **Student's Solutions Manual to Accompany University Physics**, 1984 **Student**

Solution Manual for Mathematical Methods for Physics and Engineering Third Edition K. F. Riley, M. P. Hobson, 2006-03-06 *Mathematical Methods for Physics and Engineering Third Edition* is a highly acclaimed undergraduate textbook that teaches all the mathematics for an undergraduate course in any of the physical sciences As well as lucid descriptions of all the topics and many worked examples it contains over 800 exercises New stand alone chapters give a systematic account of the special functions of physical science cover an extended range of practical applications of complex variables and give an introduction to quantum operators This solutions manual accompanies the third edition of *Mathematical Methods for Physics and Engineering* It contains complete worked solutions to over 400 exercises in the main textbook the odd numbered exercises that are provided with hints and answers The even numbered exercises have no hints answers or worked solutions and are intended for unaided homework problems full solutions are available to instructors on a password protected web site www.cambridge.org/9780521679718 **Modern Physics** Wolfson, 1999 Manual to Physics Craig Watkins, Arthur Beiser, 1991 Study Guide and Student Solutions Manual Douglas Brandt, 2000 *Physics for Scientists and Engineers* combines outstanding pedagogy with a clear and direct narrative and applications that draw the reader into the physics The new edition features an unrivaled suite of media and on line resources that enhance the understanding of physics Many new topics have been incorporated such as the Otto cycle lens combinations three phase alternating current and many more New developments and discoveries in physics have been added including the Hubble space telescope age and

inflation of the universe and distant planets Modern physics topics are often discussed within the framework of classical physics where appropriate For scientists and engineers who are interested in learning physics *Solutions Manual to Accompany Introduction to Physics for Scientists and Engineers* Frederick J. Bueche, G. T. Johnston, 1972 Fundamentals of Physics, Solutions Manual Edward Derrinagh, 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 **University Physics Student Solutions Manual** Albert Lewis Ford, Hugh D. Young, 1992 Complete Solutions Manual to Accompany Fundamentals of Physics, Fifth Edition [by] David Halliday, Robert Resnick, Jearl Walker: Chapters 1-21 Jerry J. Shi, 1997

Solutions Manual for Giancoli's Physics, Principles with Applications, 2nd Edition John F. Reading, 1985

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Sternheim, 1986 **Handbook of Radiotherapy Physics** Philip Mayles, Alan E. Nahum, J.C. Rosenwald, 2021-12-30 From the essential background physics and radiobiology to the latest imaging and treatment modalities the updated second edition of Handbook of Radiotherapy Physics Theory Practice covers all aspects of the subject In Volume 1 Part A includes the Interaction of Radiation with Matter charged particles and photons and the Fundamentals of Dosimetry with an extensive section on small field physics Part B covers Radiobiology with increased emphasis on hypofractionation Part C describes Equipment for Imaging and Therapy including MR guided linear accelerators Part D on Dose Measurement includes chapters on ionisation chambers solid state detectors film and gels as well as a detailed description and explanation of Codes of Practice for Reference Dose Determination including detector correction factors in small fields Part E describes the properties of Clinical external Beams The various methods or algorithms for Computing Doses in Patients irradiated by photon electron and proton beams are described in Part F with increased emphasis on Monte Carlo based and grid based deterministic algorithms In Volume 2 Part G covers all aspects of Treatment Planning including CT MR and Radionuclide based patient imaging Intensity Modulated Photon Beams Electron and Proton Beams Stereotactic and Total Body Irradiation

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