

## Answer Key

### Chapter 21 continued

charges on the plates were reversed, the droplet would accelerate downward since all forces then act in the same direction as gravity.

15. A  $0.5\text{-}\mu\text{F}$  capacitor is able to store  $7.2 \times 10^{-10}\text{ C}$  of charge with an electric field strength of  $0.33\text{ N/C}$  between its plates. How far apart are these plates?

$$C = \frac{q}{\Delta V} = \frac{q}{Ed}$$

$$d = \frac{q}{EC} = \frac{7.2 \times 10^{-10}\text{ C}}{(0.33\text{ N/C})(0.5 \times 10^{-6}\text{ F})}$$

$$= 4.4 \times 10^{-3}\text{ m} = 4.4\text{ mm}$$

16. Most capacitors are measured in terms of microfarads,  $\mu\text{F}$ , or picofarads,  $\text{pF}$ , because the unit of capacitance, the farad, is a relatively large unit. Given a  $1\text{-F}$  capacitor with plates separated by  $1.0\text{ mm}$  and an electric field strength of  $1\text{ N/C}$ , calculate the number of electrons resting on the plates of this capacitor.

$$C = \frac{q}{\Delta V} = \frac{q}{Ed}$$

$$q = CE d = (1\text{ F})(1\text{ N/C})(0.0010\text{ m})$$

$$= 0.0010\text{ C}$$

$$n = \frac{q}{q_e} = \frac{0.0010\text{ C}}{1.60 \times 10^{-19}\text{ C}}$$

$$= 6.2 \times 10^{15}\text{ electrons}$$

## Chapter 22

1. A  $9.0\text{-V}$  battery is connected to a lightbulb, as shown below.



- a. How much power is delivered to the lightbulb?

$$P = IV$$

$$= (0.50\text{ A})(9.0\text{ V})$$

$$= 4.5\text{ W}$$

- b. How much energy will the bulb use in  $1\text{ h}$ ?

$$E = Pt$$

$$P = IV$$

$$E = IVt$$

$$= (0.50\text{ A})(9.0\text{ V})(1\text{ h})\left(\frac{60\text{ min}}{1\text{ h}}\right)\left(\frac{60\text{ s}}{1\text{ min}}\right)$$

$$= 16,000\text{ J}$$

- c. How long would the bulb have to stay on to use  $1\text{ kWh}$  of energy?

$$E = Pt$$

$$t = \frac{E}{P}$$

$$P = IV$$

$$t = \frac{E}{IV}$$

$$E = (1\text{ kWh})\left(\frac{1000\text{ W}}{1\text{ kW}}\right)\left(\frac{3600\text{ s}}{1\text{ h}}\right)$$

$$= 3.6 \times 10^6\text{ J}$$

$$t = \frac{3.6 \times 10^6\text{ J}}{(0.50\text{ A})(9.0\text{ V})}$$

$$= 800,000\text{ s}$$

# Physics Supplemental Problems With Answers

**Lillian C. McDermott, Physics Education  
Group**



### **Physics Supplemental Problems With Answers:**

*Problems and Solutions in Quantum Chemistry and Physics* Charles S. Johnson, Lee G. Pedersen, 2013-01-18 Unusually varied problems with detailed solutions cover quantum mechanics wave mechanics angular momentum molecular spectroscopy scattering theory more 280 problems plus 139 supplementary exercises Theoretical And Mathematical Physics: Problems And Solutions Willi-hans Steeb, 2018-08-23 This is an excellent well written and very comprehensive book covering many topics of mathematics and physics An exhaustive collection of problems with detailed solutions that may be valuable to students and young researchers in several fields ranging from Mathematics to Quantum Physics is presented I found the book helpful in regards to several subjects that are not covered in other mathematical physics introductory textbooks Contemporary Physics This updated and extended edition of the book combines the topics provided in the two parts of the previous editions as well as new topics It is a comprehensive compilation covering most areas in mathematical and theoretical physics The book provides a collection of problems together with their detailed solutions which will prove to be valuable to students as well as to researchers in the fields of mathematics physics engineering and other sciences Each chapter provides a short introduction with the relevant definitions and notations All relevant definitions are given The topics range in difficulty from elementary to advanced Almost all problems are solved in detail and most of the problems are self contained Stimulating supplementary problems are also provided in each chapter Students can learn important principles and strategies required for problem solving Teachers will also find this text useful as a supplement since important concepts and techniques are developed in the problems Introductory problems for both undergraduate and advanced undergraduate students are provided More advanced problems together with their detailed solutions are collected to meet the needs of graduate students and researchers Problems included cover new fields in theoretical and mathematical physics such as tensor product Lax representation B cklund transformation soliton equations Hilbert space theory uncertainty relation entanglement spin systems Lie groups Bose system Fermi systems differential forms Lie algebra valued differential forms metric tensor fields Hirota technique Painlevé test Bethe ansatz Yang Baxter relation wavelets gauge theory differential geometry string theory chaos fractals complexity ergodic theory etc A number of software implementations are also provided

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Education Group,1995-09-07 Physics by Inquiry is a set of laboratory based modules that provide a step by step introduction to physics and the physical sciences Through in depth study of simple physical systems and their interactions students gain direct experience with the process of science Starting from their own observations students develop basic physical concepts use and interpret different forms of scientific representations and construct explanatory models with predictive capability All the modules have been explicitly designed to develop scientific reasoning skills and to provide practice in relating scientific concepts representations and models to real world phenomena The National Science Policy and Organization Act of 1975 United States. Congress. House. Committee on Science and Technology,1975 *Federal Supplement* ,1964 **Cosmos 1900 and the Future of Space Nuclear Power** United States. Congress. Senate. Committee on Energy and Natural Resources,1989 **Problems and Solutions on Vector Spaces for Physicists** Robert B. Scott,2023-08-09 This book offers supporting material for the comprehensive textbook Mathematical Physics A Modern Introduction to Its Foundations authored by Sadri Hassani The book covers mathematical preliminaries and all of Part I in Hassani s textbook The subjects covered here include the key topics necessary for physicists to form a solid mathematical foundation vectors and linear maps algebras operators matrices and spectral decomposition In particular the vector space concept is a central unifying theme in later chapters of Hassani s textbook Detailed solutions are provided to one third of the end of chapter exercises in the first six chapters of his text The present volume helps upper undergraduate and early postgraduate physics students deepen their understanding of the mathematics that they encounter in physics learn physics more efficiently and use mathematics with more confidence and creativity The content is thus presented rigorously but remains accessible to physics students New exercises are also proposed some with solutions some without so that the total number of unsolved exercises remains unchanged They are chosen to help explain difficult concepts amplify key points in Hassani s textbook or make further connections with applications in physics Taken together with Hassani s work the two form a self contained set and the solutions make detailed reference to Hassani s text The solutions also refer to other mathematics and physics textbooks providing entry points to further literature that finds a useful place in the physicist s personal library **Problem Book for First Year Calculus** George W. Bluman,2013-12-01 **Schaum's Outline of Complex Variables, 2ed** Murray R. Spiegel,Seymour Lipschutz,John J. Schiller,Dennis Spellman,2009-04-14 The guide that helps students study faster learn better and get top grades More than 40 million students have trusted Schaum s to help them study faster learn better and get top grades Now Schaum s is better than ever with a new look a new format with hundreds of practice problems and completely updated information to conform to the latest developments in every field of study Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum s Outlines Problem Solved *Schaum's Outline of Statistics* Murray Spiegel,Larry Stephens,2007-11-30 Study faster learn better and get top grades with Schaum s Outlines Millions of students trust Schaum

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**1978 National Science Foundation Authorization** United States. Congress. House. Committee on Science and Technology. Subcommittee on Science, Research, and Technology,1977

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