

DRILL PROBLEMS : CHAPTER 2

D2.1

$$(a) \quad \mathbf{R}_{AB} = (5+6) \mathbf{a}_x + (8-4) \mathbf{a}_y + (-2-7) \mathbf{a}_z = 11\mathbf{a}_x + 4\mathbf{a}_y - 9\mathbf{a}_z$$

$$(b) \quad R_{AB} = \sqrt{11^2 + 4^2 + 9^2} = 14.76 \text{ m}$$

$$(c) \quad F_{BA} = \frac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi \frac{(10^{-9})}{36\pi} (14.76^2)} a_{BA} = -0.0413 \frac{(-11a_x - 4a_y + 9a_z)}{14.76} = 30.78a_x + 11.19a_y - 25.18a_z \text{ mN}$$

$$(d) \quad F_{BA} = \frac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi \times 8.854 \times 10^{-12} (14.76^2)} a_{BA} = -0.04125 \frac{(-11a_x - 4a_y + 9a_z)}{14.76} = 30.74a_x + 11.18a_y - 25.15a_z \text{ mN}$$

D2.2

$$(a) \quad \mathbf{r} - \mathbf{r}_A = -25a_x + 30a_y - 15a_z, \quad |\mathbf{r} - \mathbf{r}_A| = 41.43$$

$$\mathbf{r} - \mathbf{r}_B = 10a_x - 8a_y - 12a_z, \quad |\mathbf{r} - \mathbf{r}_B| = 17.54$$

$$E_A = -1.57 \frac{(-25a_x + 30a_y - 15a_z)}{41.43} = 9480a_x - 11300a_y + 5600a_z$$

$$E_B = 14.61 \frac{(10a_x - 8a_y - 12a_z)}{17.54} = 83300a_x - 66600a_y - 99900a_z$$

$$E_T = E_A + E_B = 9248a_x - 77.9a_y - 94.3a_z \frac{\text{kV}}{\text{m}}$$

$$(b) \quad \mathbf{r} - \mathbf{r}_A = -10a_x + 50a_y + 35a_z, \quad |\mathbf{r} - \mathbf{r}_A| = 61.84$$

$$\mathbf{r} - \mathbf{r}_B = 25a_x + 12a_y + 38a_z, \quad |\mathbf{r} - \mathbf{r}_B| = 47.04$$

$$E_A = -7050 \frac{(-10a_x + 50a_y + 35a_z)}{61.84} = 1140a_x - 5700a_y - 3990a_z$$

$$E_B = 20300 \frac{(25a_x + 12a_y + 38a_z)}{47.04} = 10700a_x + 5180a_y + 16400a_z$$

$$E_T = E_A + E_B = 1184a_x - 52a_y + 1241a_z \frac{\text{kV}}{\text{m}}$$

D2.3

$$(a) \quad \text{Sum} = 2 + 0 + \frac{2}{5} + 0 + \frac{2}{17} + 0 = 2.517$$

$$(b) \quad \text{Sum} = \frac{1.1}{11.18} + \frac{1.01}{22.62} + \frac{1.001}{46.07} + \frac{1.0001}{89.44} = 0.1755$$



Electromagnetic Wave Theory Solution Manual

Julia Schneider



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Student Solutions Manual for Physical Chemistry C. A. Trapp, Peter Atkins, Julio dePaula, 2009-12-18 With its modern emphasis on the molecular view of physical chemistry its wealth of contemporary applications vivid full color presentation and dynamic new media tools the thoroughly revised new edition is again the most modern most effective full length textbook available for the physical chemistry classroom Available in Split Volumes For maximum flexibility in your physical chemistry course this text is now offered as a traditional text or in two volumes Volume 1 Thermodynamics and Kinetics ISBN 1 4292 3127 0 Volume 2 Quantum Chemistry Spectroscopy and Statistical Thermodynamics ISBN 1 4292 3126 2 Classical Theory Of Electromagnetism: With Companion Solution Manual (Second Edition) Baldassare Di Bartolo, 2004-08-25 New Edition Classical Theory of Electromagnetism 3rd Edition The topics treated in this book are essentially those that a graduate student of physics or electrical engineering should be familiar with in classical electromagnetism Each topic is analyzed in detail and each new concept is explained with examples The text is self contained and oriented toward the student It is concise and yet very detailed in mathematical calculations the equations are explicitly derived which is of great help to students and allows them to concentrate more on the physics concepts rather than spending too much time on mathematical derivations The introduction of the theory of special relativity is always a challenge in teaching electromagnetism and this topic is considered with particular care The value of the book is increased by the inclusion of a large number of exercises

Electromagnetic Wave Propagation, Radiation, and Scattering Akira Ishimaru, 2017-10-27 One of the most methodical treatments of electromagnetic wave propagation radiation and scattering including new applications and ideas Presented in two parts this book takes an analytical approach on the subject and emphasizes new ideas and applications used today Part one covers fundamentals of electromagnetic wave propagation radiation and scattering It provides ample end of chapter problems and offers a 90 page solution manual to help readers check and comprehend their work The second part of the book explores up to date applications of electromagnetic waves including radiometry geophysical remote sensing and imaging and biomedical and signal processing applications Written by a world renowned authority in the field of electromagnetic research this new edition of *Electromagnetic Wave Propagation Radiation and Scattering* From Fundamentals to Applications presents detailed applications with useful appendices including mathematical formulas Airy function Abel s equation Hilbert transform and Riemann surfaces The book also features newly revised material that focuses on the following topics Statistical wave theories which have been extensively applied to topics such as geophysical remote sensing bio electromagnetics bio optics and bio ultrasound imaging Integration of several distinct yet related disciplines such as statistical wave theories communications signal processing and time reversal imaging New phenomena of multiple scattering such as coherent scattering and memory effects Multiphysics applications that combine theories for different physical phenomena such as seismic coda waves stochastic wave theory heat diffusion and temperature rise in biological and

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on to explain how to analyze simple optical systems such as spectacles for improving vision microscopes and telescopes while also being exposed to contemporary research topics Ajawad I Haija is a professor of physics at Indiana University of Pennsylvania M Z Numan is professor and chair of the department of physics at Indiana University of Pennsylvania W Larry Freeman is Emeritus Professor of Physics at Indiana University of Pennsylvania

Journal of Research of the National Bureau of Standards, 1969 **Journal of Research** United States. National Bureau of Standards, 1968 *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards, 1969 Physics, Volume 2 David Halliday, Robert Resnick, Kenneth S. Krane, 2010-04-20 Written for the full year or three term Calculus based University Physics course for science and engineering majors the publication of the first edition of Physics in 1960 launched the modern era of Physics textbooks It was a new paradigm at the time and continues to be the dominant model for all texts Physics is the most realistic option for schools looking to teach a more demanding course The entirety of Volume 2 of the 5th edition has been edited to clarify conceptual development in light of recent findings of physics education research End of chapter problem sets are thoroughly over hauled new problems are added outdated references are deleted and new short answer conceptual questions are added

U.S. Government Research Reports, 1964 *Handbook of Antennas in Wireless Communications* Lal Chand Godara, 2018-10-03 The move toward worldwide wireless communications continues at a remarkable pace and the antenna element of the technology is crucial to its success With contributions from more than 30 international experts the Handbook of Antennas in Wireless Communications brings together all of the latest research and results to provide engineering professionals and students with a one stop reference on the theory technologies and applications for indoor hand held mobile and satellite systems Beginning with an introduction to wireless communications systems it offers an in depth treatment of propagation prediction and fading channels It then explores antenna technology with discussion of antenna design methods and the various antennas in current use or development for base stations hand held devices satellite communications and shaping beams The discussions then move to smart antennas and phased array technology including details on array theory and beamforming techniques Space diversity direction of arrival estimation source tracking and blind source separation methods are addressed as are the implementation of smart antennas and the results of field trials of systems using smart antennas implemented Finally the hot media topic of the safety of mobile phones receives due attention including details of how the human body interacts with the electromagnetic fields of these devices Its logical development and extensive range of diagrams figures and photographs make this handbook easy to follow and provide a clear understanding of design techniques and the performance of finished products Its unique comprehensive coverage written by top experts in their fields promises to make the Handbook of Antennas in Wireless Communications the standard reference for the field

Electromagnetics of Time Varying Complex Media Dikshitulu K. Kalluri, 2018-09-03 Completely revised and updated to reflect recent advances in the fields of materials science and electromagnetics

Electromagnetics of Time Varying Complex Media Second Edition provides a comprehensive examination of current topics of interest in the research community including theory numerical simulation application and experimental work Written by a world leader in the research of frequency transformation in a time varying magnetoplasma medium the new edition of this bestselling reference discusses how to apply a time varying medium to design a frequency and polarization transformer This authoritative resource remains the only electromagnetic book to cover time varying anisotropic media Frequency and Polarization Transformer based on a switched magnetoplasma medium in a cavity and FDTD numerical simulation for time varying complex medium Providing a primer on the theory of using magnetoplasmas for the coherent generation of tunable radiation early chapters use a mathematical model with one kind of complexity eliminating the need for high level mathematics Using plasma as the basic medium to illustrate various aspects of the transformation of an electromagnetic wave by a complex medium the text highlights the major effects of each kind of complexity in the medium properties This significantly expanded edition includes Three new parts a Numerical Simulation FDTD Solution b Application Frequency and Polarization Transformer and c Experiments A slightly enhanced version of the entire first edition plus 70% new material Reprints of papers previously published by the author providing researchers with complete access to the subject The text provides the understanding of research techniques useful in electro optics plasma science and engineering microwave engineering and solid state devices This complete resource supplies an accessible treatment of the effect of time varying parameters in conjunction with one or more additional kinds of complexities in the properties of particular mediums

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