Electricity and Magnetism II – Homework Assignment 6

Alejandro Gómez Espinosa [*]

March 13, 2013

Jackson, 9.12 *An almost spherical surface defined by*

$$R(\theta) = R_0[1 + \beta P_2(\cos\theta)] \qquad (1)$$

has inside of it a uniform volume distribution of charge totaling Q. The small parameter β varies harmonically in time at frequency ω. This corresponds to surface waves on a sphere. Keeping only lowest order terms in β and making the long-wavelength approximation, calculate the nonvanishing multipole moments, the angular distribution of radiation, and the total power radiated.

Let us calculate the charge density ρ for this surface. Since $Q = \rho V$, where V is the volume, then:

$$\rho = \frac{Q}{V} = \frac{3Q}{4\pi R^3}$$

using the approximation described in (1):

$$\rho = \frac{3Q}{4\pi R_0^3[1 + \beta P_2(\cos\theta)]^3} \qquad (2)$$

Then, the multipole moments:

$$
\begin{aligned}
Q_{lm} &= \int r^l Y_{lm}^* \rho \, d^3x \\
Q_{l0} &= \frac{3Q}{4\pi R_0^3} \int \sqrt{\frac{2l+1}{4\pi}} \frac{P_2(\cos\theta)}{(1 + \beta P_2(\cos\theta))^3} r^l r^2 \sin\theta \, dr \, d\theta \, d\phi \\
&= \frac{3Q}{4\pi R_0^3} \frac{2\pi R^{l+3}}{(l+3)} \sqrt{\frac{2l+1}{4\pi}} \int \frac{P_2^l(\cos\theta)}{(1 + \beta P_2(\cos\theta))^3} \sin\theta \, d\theta \\
&= \frac{3Q R^l}{2(l+3)} \sqrt{\frac{2l+1}{4\pi}} \int_0^\pi P_2^l(\cos\theta)(1 + \beta P_2(\theta))^l \, d(\cos\theta) \\
&\approx \frac{3Q R^l}{2(l+3)} \sqrt{\frac{2l+1}{4\pi}} \int_{-1}^1 P_2^l(x)(1 + \beta l P_2(x)) \, d(x) \\
&= \frac{3Q R^l}{2(l+3)} \sqrt{\frac{2l+1}{4\pi}} \left(\int_{-1}^1 P_2^l(x) \, dx + \int_{-1}^1 \beta l P_2(x) \, d(x) \right) \\
&= \frac{3Q R^l}{2(l+3)} \sqrt{\frac{2l+1}{4\pi}} \frac{2}{2l+1} (\delta_{l,0} + \beta l \delta_{l,2})
\end{aligned}
$$

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Solution Of Problems From Jacksons Electricity Magnetism

Jack Vanderlinde

Solution Of Problems From Jacksons Electricity Magnetism:

Problems in Classical Electromagnetism Andrea Macchi,Giovanni Moruzzi,Francesco Pegoraro,2023-05-29 This second edition adds 46 new problems for a total of 203 The solutions to certain old problems have been revised for improved clarity in response to questions and comments from our students second year students in the Master s in Physics program Each problem is given a title indicating its relation to the various areas of physics or technology By tackling the problems presented here students are gently introduced to advanced topics such as unipolar and homopolar motors magnetic monopoles radiation pressure angular momentum of light bulk and surface plasmons and radiation friction We also address a number of tricky concepts and apparent ambiguities and paradoxes encountered in the classical theory of electromagnetism with a particular focus on conservation laws and transformation properties between different frames of reference At the same time the book can be used as an introduction to applications of classical electromagnetism including cutting edge topics like plasmonics metamaterials and light driven propulsion While unnecessary mathematical complexity is avoided the new edition also provides a few introductory examples concerning elegant and powerful solution techniques Hopefully the second edition offers an even better teaching tool for undergraduates in physics mathematics and electric engineering and a valuable reference guide for students planning to work in optics material science electronics and plasma physics

Classical Electrodynamics with Solutions Julian Ting,丁其玨,2023-03-20   *Intermediate Electromagnetic Theory* Joseph V. Stewart,2001 This invaluable text has been developed to provide students with more background on the applications of electricity and magnetism particularly with those topics which relate to current research For example waveguides both metal and dielectric are discussed more thoroughly than in most texts because they are an important laboratory tool and important components of modern communications In a sense this book modernizes the topics covered in the typical course on electricity and magnetism It provides not only solid background for the student who chooses a field which uses techniques requiring knowledge of electricity and magnetism but also general background for the physics major   **Health Effects of Low-frequency Electric and Magnetic Fields** ORAU Panel on Health Effects of Low-Frequency Electric and Magnetic Fields,1992   *Solutions of the Examples in Charles Smith's Elementary Algebra* Alfred George Cracknell,Charles Smith,1891   Princeton Problems in Physics with Solutions Nathan Newbury,Mark Newman,2015-03-25 Aimed at helping the physics student to develop a solid grasp of basic graduate level material this book presents worked solutions to a wide range of informative problems These problems have been culled from the preliminary and general examinations created by the physics department at Princeton University for its graduate program The authors all students who have successfully completed the examinations selected these problems on the basis of usefulness interest and originality and have provided highly detailed solutions to each one Their book will be a valuable resource not only to other students but to college physics teachers as well The first four chapters pose problems in the areas of mechanics electricity and magnetism quantum

mechanics and thermodynamics and statistical mechanics thereby serving as a review of material typically covered in undergraduate courses Later chapters deal with material new to most first year graduate students challenging them on such topics as condensed matter relativity and astrophysics nuclear physics elementary particles and atomic and general physics

Charles Thomas Jackson, "the Head Behind the Hands" Richard J. Wolfe,Richard W. Patterson,2007 **Simultaneous Solution for Core Magnetic Field and Fluid Flow Beneath an Electrically Conducting Mantle** Coerte V. Voorhies,1993 **The mathematical analysis of electrical and optical wave-motion on the basis of Maxwell's equations** Harry Bateman,2018-10-13 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant **Classical Electromagnetic Theory** Jack Vanderlinde,2006-01-17 In questions of science the authority of a thousand is not worth the humble reasoning of a single individual Galileo Galilei physicist and astronomer 1564 1642 This book is a second edition of Classical Electromagnetic Theory which derived from a set of lecture notes compiled over a number of years of teaching elect magnetic theory to fourth year physics and electrical engineering students These students had a previous exposure to electricity and magnetism and the material from the rst four and a half chapters was presented as a review I believe that the book makes a reasonable transition between the many excellent elementary books such as Gri th s Introduction to Electrodynamics and the obviously graduate level books such as Jackson s Classical Electrodynamics or Landau and Lifshitz Elect dynamics of Continuous Media If the students have had a previous exposure to Electromagnetictheory allthematerialcanbereasonablycoveredintwosemesters Neophytes should probable spenda semester on the rst four or ve chapters as well as depending on their mathematical background the Appendices B to F For a shorter or more elementary course the material on spherical waves waveguides and waves in anisotropic media may be omitted without loss of continuity **John David Jackson** John David Jackson,2023-08-31 A Course in Quantum Mechanics Unique graduate level textbook on quantum mechanics by John David Jackson author of the renowned Classical Electrodynamics A Course in Quantum Mechanics is drawn directly from J D Jackson s detailed lecture notes and problem sets It is edited by his colleague and former student Robert N Cahn who has taken care to preserve Jackson s unique style The textbook is notable for its original problems focused on real applications with many addressing published data in accompanying tables and figures Solutions are provided for problems that are critical for understanding the material and that lead to the most important

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Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science 77 chapters encompass the entire field of electrical engineering THOUSANDS of valuable figures tables formulas and definitions Extensive bibliographic references   **Advances in Cryogenic Engineering** K. Timmerhaus,2012-12-06 In late 1877 Louis Cailletete in France and Raoul Pictet in Switzerland independently succeeded in liquefying oxygen thereby proving a hypothesis set forth by Antoine Lavoisier nearly 100 years earlier The theme of the 1977 Cryogenic Engineering Conference Cryogenics A Century of Progress A Chal lenge for the Future properly commemorated this accomplishment by reviewing some of the noteworthy advances since that time and outlining many advances still to come Both Volumes 23 and 24 of this series provide a good account of the many contributions that were presented at this conference The 1977 Cryogenic Engineering Conference was appropriately again held in Boulder Colorado where the first Cryogenic Engineering Conference was initiated 23 years ago by the late Russell B Scott then Chief of the Cryogenic Engineering Laboratory of the National Bureau of Standards The Cryogenic Engineering Conference Board is extremely grateful to members of the National Bureau of Standards and the University of Colorado for serving as hosts for this meeting of cryogenic specialists from all over the world The Cryogenic Engineering Conference is again pleased to have had the International Cryogenic Materials Conference co host this biennial meeting for the second time in succession This joint effort again has permitted an in depth coverage of research on technical materials in areas currently receiving primary attention by the cryogenic engineering community The Proceedings of the Inter national Cryogenic Materials Conference will be published as Volume 24 of the Advances in Cryogenic Engineering   *The University of Idaho Bulletin* University of Idaho,1898   **Applied Mechanics Reviews** ,1963   *Glasgow University Calendar* University of Glasgow,1897   **Glasgow University Calendar for the Year ...** University of Glasgow,1895   **Morse's Patent. Full exposure of Dr. C. T. Jackson's pretensions to the invention of the American Electro-Magnetic Telegraph** Amos KENDALL,1852   **Electricity** ,1898   The Electrical Journal ,1898

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