

Solutions to Problems in Jackson,  
*Classical Electrodynamics*, Third Edition

Homer Reid

June 15, 2000

## Chapter 3: Problems 11-18

### Problem 3.11

A modified Bessel-Fourier series on the interval  $0 \leq \rho \leq a$  for an arbitrary function  $f(\rho)$  can be based on the "homogenous" boundary conditions:

$$\begin{aligned} \text{At } \rho = 0, \quad \rho J_\nu(k\rho) \frac{d}{d\rho} J_\nu(k'\rho) &= 0 \\ \text{At } \rho = a, \quad \frac{d}{d\rho} \ln[J_\nu(k\rho)] &= -\frac{\lambda}{a} \quad (\lambda \text{ real}) \end{aligned}$$

The first condition restricts  $\nu$ . The second condition yields eigenvalues  $k = y_{\nu n}/a$ , where  $y_{\nu n}$  is the  $n$ th positive root of  $x dJ_\nu(x)/dx + \lambda J_\nu(x) = 0$ .

- (a) Show that the Bessel functions of different eigenvalues are orthogonal in the usual way.
- (b) Find the normalization integral and show that an arbitrary function  $f(\rho)$  can be expanded on the interval in the modified Bessel-Fourier series

$$f(\rho) = \sum_{n=1}^{\infty} A_n J_\nu\left(\frac{y_{\nu n}}{a}\rho\right)$$

with the coefficients  $A_n$  given by

$$A_n = \frac{2}{a^2} \left[ \left(1 - \frac{\nu^2}{y_{\nu n}^2}\right) J_\nu^2(y_{\nu n}) + \left(\frac{dJ_\nu(y_{\nu n})}{dy_{\nu n}}\right)^2 \right]^{-1} \int_0^a f(\rho) \rho J_\nu\left(\frac{y_{\nu n}\rho}{a}\right) d\rho.$$

# Jackson Electrodynamics Solutions Chapter 3

**Constantine A. Balanis**



### **Jackson Electrodynamics Solutions Chapter 3:**

Classical Electrodynamics Francesco Lacava, 2022-10-03 This book presents an overview of Classical Electrodynamics Its second edition includes new chapters that pick up where the material from the first edition left off The image method introduced in the first edition is expanded to series of images using simple examples like a point charge or a charged wire between two grounded plates as well as more relevant examples such as two charged conducting spheres and the force between them The topic of complex functions is broadened with the introduction of conformal mapping One new chapter introduces the method of separation of variables including in Cartesian coordinates box with sides at fixed voltages in spherical coordinates dielectric and conducting sphere potential of a charged ring in cylindrical coordinates conducting wedge cylinder in uniform field It also presents the potentials and the fields for a point charge in motion radiation by a point charge and by a dipole radiation reaction Two other chapters present updated lessons on the mass of the photon and search for monopoles Examples and or solvable problems are provided throughout *Classical Electrodynamics* John David Jackson, 2021 The third edition of the defining text for the graduate level course in Electricity and Magnetism has finally arrived It has been 37 years since the first edition and 24 since the second The new edition addresses the changes in emphasis and applications that have occurred in the field without any significant increase in length *Solved Problems in Classical Electromagnetism* J. Pierrus, 2018-08-02 Classical electromagnetism one of the fundamental pillars of physics is an important topic for all types of physicists from the theoretical to the applied The subject is widely recognized to be one of the most challenging areas of the physics curriculum both for students to learn and for lecturers to teach Although textbooks on electromagnetism are plentiful hardly any are written in the question and answer style format adopted in this book It contains nearly 300 worked questions and solutions in classical electromagnetism and is based on material usually encountered during the course of a standard university physics degree Topics covered include some of the background mathematical techniques electrostatics magnetostatics elementary circuit theory electrodynamics electromagnetic waves and electromagnetic radiation For the most part the book deals with the microscopic theory although we also introduce the important subject of macroscopic electromagnetism as well Nearly all questions end with a series of comments whose purpose is to stimulate inductive reasoning and reach various important conclusions arising from the problem Occasionally points of historical interest are also mentioned Both analytical and numerical techniques are used in obtaining and analyzing solutions All computer calculations are performed with MathematicaCO and the relevant code is provided in a notebook either in the solution or the comments *Introduction to the Physics of Fluids and Solids* J. S. Trefil, 2013-11-06 Introduction to the Physics of Fluids and Solids presents a way to learn continuum mechanics without mastering any other systems It discusses an introduction to the principles of fluid mechanics Another focus of study is the fluids in astrophysics Some of the topics covered in the book are the rotation of the galaxy the concept of stability the fluids in motion and the waves in fluids

the theory of the tides the vibrations of the earth and nuclear fission The viscosity in fluids is covered The flow of viscous fluids is discussed The text identifies the general circulation of the atmosphere An analysis of the general properties of solids is presented A chapter of the volume is devoted to the applications of seismology Another section of the book focuses on the flow of the blood and the urinary drop spectrometer The book will provide useful information to doctors physicists engineers students and researchers

*Introduction to Electrodynamics* David J. Griffiths, 2017-06-29 This well known undergraduate electrodynamics textbook is now available in a more affordable printing from Cambridge University Press The Fourth Edition provides a rigorous yet clear and accessible treatment of the fundamentals of electromagnetic theory and offers a sound platform for explorations of related applications AC circuits antennas transmission lines plasmas optics and more Written keeping in mind the conceptual hurdles typically faced by undergraduate students this textbook illustrates the theoretical steps with well chosen examples and careful illustrations It balances text and equations allowing the physics to shine through without compromising the rigour of the math and includes numerous problems varying from straightforward to elaborate so that students can be assigned some problems to build their confidence and others to stretch their minds A Solutions Manual is available to instructors teaching from the book access can be requested from the resources section at [www.cambridge.org/electrodynamics](http://www.cambridge.org/electrodynamics)

Statistical Mechanics of Liquids and Solutions Roland Kjellander, 2019-07-30 The statistical mechanical theory of liquids and solutions is a fundamental area of physical sciences with important implications for many industrial applications This book shows how you can start from basic laws for the interactions and motions of microscopic particles and calculate how macroscopic systems of these particles behave thereby explaining properties of matter at the scale that we perceive Using this microscopic molecular approach the text emphasizes clarity of physical explanations for phenomena and mechanisms relevant to fluids addressing the structure and behavior of liquids and solutions under various conditions A notable feature is the author's treatment of forces between particles that include nanoparticles macroparticles and surfaces The book also provides an expanded in depth treatment of polar liquids and electrolytes

Balanis' Advanced Engineering Electromagnetics Constantine A. Balanis, 2024-01-31 Balanis Advanced Engineering Electromagnetics The latest edition of the foundational guide to advanced electromagnetics Balanis third edition of Advanced Engineering Electromagnetics a global best seller for over 30 years covers the advanced knowledge engineers involved in electromagnetics need to know particularly as the topic relates to the fast moving continuously evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antennas microwaves and wireless communications points to an increase in the number of engineers needed to specialize in this field Highlights of the 3rd Edition include A new chapter on Artificial Impedance Surfaces AIS contains material on current and advanced EM technologies including the exciting and fascinating topic of metasurfaces for Control and broadband RCS reduction using checkerboard designs Optimization of antenna fundamental parameters such as input

impedance directivity realized gain amplitude radiation pattern Leaky wave antennas using 1 D and 2 D polarization diverse holographic high impedance metasurfaces for antenna radiation control and optimization Associated MATLAB programs for the design of checkerboard metasurfaces for RCS reduction and metasurface printed antennas and holographic LWA for radiation control and optimization Throughout the book there are Additional examples numerous end of chapter problems and PPT notes Fifty three MATLAB computer programs for computations graphical visualizations and animations Nearly 4 500 multicolor PowerPoint slides are available for self study or lecture use

**Electromagnetic Field Solutions for the Natural Nodes of a Cylindrical Cavity Loaded with Lossy Materials** Edward Benjamin Manring,1992

**Topological Effects in Quantum Mechanics** G.N. Afanasiev,2012-12-06 Among the subjects covered in this volume are the topological effects of quantum mechanics including Bohm Aharonov and Aharonov Casher effects and their generalisations the toroidal moments anapoles and their generalisations the numerical investigation of Tonomura experiments testing the foundations of quantum mechanics the time dependent Bohm Aharonov effect the thorough study of toroidal solenoids and their use as effective transmitters of electromagnetic waves and the topical questions of the Vavilov Cherenkov radiation Furthermore concrete advice is given for the construction of magnetic and electric solenoids and the performance of experiments on the Bohm Aharonov effect In addition properties of remarkable charge current configurations and practical applications are studied Audience This volume will be of interest to postgraduate students and researchers dealing with new effective sources of electromagnetic waves

Solutions for Problems in Classical Electrodynamics Julian J.-L. Ting,2005

*Two Methods for the Exact Solution of Diffraction Problems* Frederick E. Alzofon,2004 This text presents two methods of calculating the electromagnetic fields due to radiation scattering by a single scatterer Both methods yield valid results for all wavelengths of the incident radiation as well as a wide variety of scatterer configurations

*Field, Force, Energy and Momentum in Classical Electrodynamics (Revised Edition)* Masud Mansuripur,2017-08-29 The classical theory of electrodynamics is based on Maxwell's equations and the Lorentz law of force This book begins with a detailed analysis of these equations and proceeds to examine their far reaching consequences The traditional approach to electrodynamics treats the microscopic equations of Maxwell as fundamental with electric charge and electric current as the sole sources of the electric and magnetic fields Subsequently polarization and magnetization are introduced into Maxwell's equations to account for the observed behavior of material media The augmented equations known as Maxwell's macroscopic equations are considered useful for practical applications but are also ultimately reducible to the more fundamental microscopic equations In contrast this textbook treats Maxwell's macroscopic equations as the foundation of classical electrodynamics and treats electrical charge electrical current polarization and magnetization as the basic constituents of material media The laws that govern the distribution of electromagnetic energy and momentum in space time are also introduced in an early chapter then discussed in great detail in subsequent chapters The text presents several examples that demonstrate the solution of Maxwell's

equations in diverse situations aiming to enhance the reader's understanding of the flow of energy and momentum as well as the distribution of force and torque throughout the matter field systems under consideration. This revised edition of *Field Force Energy and Momentum in Classical Electrodynamics* features revised chapters some of which include expanded discussions of fundamental concepts or alternative derivations of important formulas. The new edition also features three additional chapters covering Maxwell's equations in spherical coordinates, Chapter 10 the author's recent discussion and streamlined proof of the Optical Theorem, Chapter 13 and the fascinating connections between electromagnetism and Einstein's special theory of relativity, Chapter 15. A new appendix covers the SI system of units that has been used throughout the book. The book is a useful textbook for physics majors studying classical electrodynamics. It also serves as a reference for industry professionals and academic faculty in the fields of optics and advanced electronics.

**Modern Electrodynamics** Andrew Zangwill, 2013. An engaging writing style and a strong focus on the physics make this graduate level textbook a must have for electromagnetism students.

**Electrodynamics** H. J. W. Müller-Kirsten, 2004. This is a comprehensive text on electrodynamics with detailed explanations and calculations. One hundred worked examples have been incorporated making this book also suitable for self instruction. Apart from all traditional topics of the Maxwell's theory this book includes the special theory of relativity and the Lagrangian formalism and applications. The text also contains introductions to quantum effects related to electrodynamics such as the Aharonov-Bohm and the Casimir effects. Numerous modern applications in diverse directions are treated in the examples.

**Trapped Charged Particles: A Graduate Textbook With Problems And Solutions** Richard C Thompson, Niels Madsen, Martina Knoop, 2016-04-15. At Les Houches in January 2015 experts in the field of charged particle trapping came together for the Second Winter School on Physics with Trapped Charged Particles. This textbook collates the lectures delivered there covering the fundamental physics of particle traps and the different types of applications of these devices. Taken as a whole the book gives an overview of why traps for charged particles are important, how they work, their special features and limitations and their application in areas such as precision measurements, mass spectrometry, optical clocks, plasma physics, antihydrogen creation, quantum simulation and quantum information processing. Chapters from various world experts include those on the basic properties of Penning traps and RF traps as well as those covering important practical aspects such as vacuum systems, detection techniques and different types of particle cooling including laser cooling. Each individual chapter provides information and guidance on the application of the above methods. Additionally, each chapter is complemented by fully worked problems and solutions making *Trapped Charged Particles* perfect for advanced undergraduate and postgraduate students new to this topic.

**Introduction to Wave Scattering, Localization and Mesoscopic Phenomena** Ping Sheng, 2006-08-25. Waves represent an important topic of study in physics, mathematics and engineering. This volume is a resource book for those interested in understanding the physics underlying nanotechnology and mesoscopic phenomena. It aims to bridge the gap between the textbooks and research frontiers in wave

related topics      *New Advances in Maxwell's Equations and Applications* Er-Ping Li,Zhong Lin Wang,2025-02-01 This book offers a comprehensive examination of ongoing advancements in theoretical and experimental approaches to Maxwell's equations It focuses on three key aspects quantum effects scale effects and kinetic effects which exert subtle influences at microscopic levels Addressing pressing challenges for future progress the text explores the interplay of these phenomena within classical electromagnetism The evolution of data communication and information technology has led to a demand for high density minimization ultra compact nano photo electronic integration As electronic devices scale down to nanometer and sub nanometer levels classical Maxwell's equations reveal quantum effects This book provides insights into these advancements focusing on potential applications in nano scale electronic and optic devices Tailored for physicists engineering scientists electronics engineers and developers this text serves as a valuable resource It guides readers from classical Maxwell's equations to their quantum affected counterparts providing essential insights for electromagnetic simulation and the design of nano scale electronic and optic systems With its blend of theoretical foundations and practical applications this book equips professionals with the knowledge needed to apply these advancements in real world scenarios

**Turbulence** Peter Davidson,2015 This is an advanced textbook on the subject of turbulence and is suitable for engineers physical scientists and applied mathematicians The aim of the book is to bridge the gap between the elementary accounts of turbulence found in undergraduate texts and the more rigorous monographs on the subject Throughout the book combines the maximum of physical insight with the minimum of mathematical detail Chapters 1 to 5 may be appropriate as background material for an advanced undergraduate or introductory postgraduate course on turbulence while chapters 6 to 10 may be suitable as background material for an advanced postgraduate course on turbulence or act as a reference source for professional researchers This second edition covers a decade of advancement in the field streamlining the original content while updating the sections where the subject has moved on The expanded content includes large scale dynamics stratified rotating turbulence the increased power of direct numerical simulation two dimensional turbulence Magnetohydrodynamics and turbulence in the core of the Earth

**Orbiting The Moons Of Pluto: Complex Solutions To The Einstein, Maxwell, Schrodinger And Dirac Equations** Richard L Amoroso,Elizabeth A Rauscher,2011-03-21 The Maxwell Einstein Schrödinger and Dirac equations are considered the most important equations in all of physics This volume aims to provide new eight and twelve dimensional complex solutions to these equations for the first time in order to reveal their richness and continued importance for advancing fundamental Physics If M Theory is to keep its promise of defining the ultimate structure of matter and spacetime it is only through the topological configurations of additional dimensionality or degrees of freedom that this will be possible Stretching the exploration of complex space through all of the main equations of Physics should help tighten the noose on the fundamental theory This kind of exploration of higher dimensional spacetime has for the most part been neglected by M theorists and physicists in general and is taken to its penultimate form here

**Introduction to**

**Experimental Biophysics** Jay L. Nadeau, 2017-10-10 Praise for the First Edition essential reading for any physical scientist who is interested in performing biological research Contemporary Physics an ambitious text Each chapter contains protocols and the conceptual reasoning behind them which is often useful to physicists performing biological experiments for the first time Physics Today This fully updated and expanded text is the best starting point for any student or researcher in the physical sciences to gain firm grounding in the techniques employed in molecular biophysics and quantitative biology It includes brand new chapters on gene expression techniques advanced techniques in biological light microscopy super resolution two photon and fluorescence lifetime imaging holography and gold nanoparticles used in medicine The author shares invaluable practical tips and insider s knowledge to simplify potentially confusing techniques The reader is guided through easy to follow examples carried out from start to finish with practical tips and insider s knowledge The emphasis is on building comfort with getting hands wet with basic methods and finally understanding when and how to apply or adapt them to address different questions Jay L Nadeau is a scientific researcher and head of the Biomedical Engineering in Advanced Applications of Quantum Oscillatory and Nanotechnological Systems BEAQONS lab at Caltech and was previously associate professor of biomedical engineering and physics at McGill University



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