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Introduction to Electrodynamics (4th Edition)
Quantum Electrodynamics
Electricity and

Magnetism
Revolutions in Twentieth-Century Physics
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A Student's Guide to Maxwell's Equations
Modern Electrodynamics
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Nuclear and Particle Physics
Electrodynamics and Optics
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No-Nonsense Electrodynamics
Theoretical Physics
4 Vector and Tensor Analysis

Collective Electrodynamics
Quantum Theory of Near-Field Electrodynamics
On the Electrodynamics of Moving Bodies
Classical Electrodynamics
Theoretical Physics
3 Computational Electromagnetics with MATLAB, Fourth Edition
Quantum Electrodynamics
Introduction to Electrodynamics and Radiation
Field, Force, Energy and Momentum in Classical Electrodynamics

Gravitation and Spacetime

Drawing Theories Apart Classical Electrodynamics *An Essential Guide to Electrodynamics*
The Earth's Ionosphere
Schaum's Outline of Electromagnetics, 4th Edition
Special Relativity and Classical Field Theory

This fourth edition of the text reflects the continuing increase in awareness and use of computational electromagnetics and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite-

difference time-domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. It teaches the readers how to pose, numerically analyze, and solve EM problems, to give them the ability to expand their problem-solving skills using a variety of methods, and to prepare them for research in electromagnetism. Includes new homework problems in each chapter. Each chapter is updated with the current trends in CEM. Adds a new appendix on CEM codes, which covers commercial and

free codes. Provides updated MATLAB code. 1. Classical foundations -- 2. Special relativity -- 3. Quantum mechanics -- 4. Elementary particles -- 5. Cosmology. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For junior/senior-level electricity and magnetism courses. This book is known for its clear, concise, and accessible coverage of standard topics in a logical and pedagogically sound order. The highly polished Fourth Edition features a clear, accessible

treatment of the fundamentals of electromagnetic theory, providing a sound platform for the exploration of related applications (ac circuits, antennas, transmission lines, plasmas, optics, etc.). Its lean and focused approach employs numerous new examples and problems.

"Quantum Theory of Near-field Electrodynamics" gives a self-contained account of the fundamental theory of field-matter interaction on a subwavelength scale. The quantum physical behavior of matter (atoms and mesoscopic media) in both classical and quantum fields is treated. The role of local-field effects and nonlocal

electrodynamics, and the tight links to the theory of spatial photon localization are emphasized. The book may serve as a reference work in the field, and is of general interest for physicists working in quantum optics, mesoscopic electrodynamics and physical optics. The macroscopic and microscopic classical theories form a good starting point for the quantum approach, and these theories are presented in a manner appropriate for graduate students entering near-field optics. For junior/senior-level electricity and magnetism courses. This book is known for its clear, concise and accessible

coverage of standard topics in a logical and pedagogically sound order. The Third Edition features a clear, accessible treatment of the fundamentals of electromagnetic theory, providing a sound platform for the exploration of related applications (ac circuits, antennas, transmission lines, plasmas, optics, etc.). Its lean and focused approach employs numerous examples and problems. "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 electri" This textbook covers all the standard introductory topics in classical mechanics, including Newton's laws, oscillations, energy, momentum, angular momentum, planetary motion, and special relativity. It also explores more advanced topics, such as normal modes, the Lagrangian method, gyroscopic motion, fictitious forces, 4-vectors, and general relativity. It contains more than 250 problems with detailed solutions so students can easily check their understanding of the topic. There are

also over 350 unworked exercises which are ideal for homework assignments. Password protected solutions are available to instructors at www.cambridge.org/9780521876223. The vast number of problems alone makes it an ideal supplementary text for all levels of undergraduate physics courses in classical mechanics. Remarks are scattered throughout the text, discussing issues that are often glossed over in other textbooks, and it is thoroughly illustrated with more than 600 figures to help demonstrate key concepts. Quantum Electrodynamics focuses on the

formulation of quantum electrodynamics (QED) in its most general and most abstract form: relativistic quantum field theory. It describes QED as a program, rather than a closed theory, that rests on the theory of the quantum Maxwellian field interacting with given (external) classical sources of radiation and on the relativistic quantum mechanics of electrons interacting with a given (external) classical electromagnetic field. Comprised of eight chapters, this volume begins with an introduction to the fundamental principles of quantum theory formulated in a

general, abstract fashion. The following chapters consider non-relativistic quantum mechanics; the theory of the electromagnetic field interacting with given sources of radiation; the quantum mechanics of particles; and the relativistic quantum mechanics of mutually non-interacting electrons moving in a given electromagnetic field. The formulation of QED is then described, paying particular attention to perturbation theory and Feynman diagrams and electron-photon processes. The final two chapters deal with renormalization theory and

applications of QED. This book is addressed to readers who are familiar with quantum mechanics and classical electrodynamics at the level of university courses. Several significant additions have been made to the second edition, including the operator method of calculating the bremsstrahlung cross-section, the calculation of the probabilities of photon-induced pair production and photon decay in a magnetic field, the asymptotic form of the scattering amplitudes at high energies, inelastic scattering of electrons by hadrons, and the transformation of electron-positron

pairs into hadrons. This engaging text offers an accessible and clear treatment of the fundamentals of electromagnetics and optics, a core part of the standard undergraduate physics curriculum. Starting with static electric and magnetic fields, the book works through electromagnetic oscillations and the formation and propagation of electromagnetic waves, before moving on to geometric and wave optics, optical instrumentation and some discussion of new technologies in optics. The text is written from the experimental physics point of view, giving numerous real life examples and

applications of devices. This highly motivating presentation deepens the knowledge in a very accessible way, carefully interweaving theory and practical applications. Students are guided through the material with well-chosen examples and case studies, and helpful chapter summaries are provided together with numerous exercises and detailed solutions, all intended to motivate and develop a well-founded understanding of the subject matter. Changes and additions to the new edition of this classic textbook include a new chapter on

symmetries, new problems and examples, improved explanations, more numerical problems to be worked on a computer, new applications to solid state physics, and consolidated treatment of time-dependent potentials. A revision of the defining book covering the physics and classical mathematics necessary to understand electromagnetic fields in materials and at surfaces and interfaces. The third edition has been revised to address the changes in emphasis and applications that have occurred in the past twenty years. An accessible

introduction to nuclear and particle physics with equal coverage of both topics, this text covers all the standard topics in particle and nuclear physics thoroughly and provides a few extras, including chapters on experimental methods; applications of nuclear physics including fission, fusion and biomedical applications; and unsolved problems for the future. It includes basic concepts and theory combined with current and future applications. An excellent resource for physics and astronomy undergraduates in higher-level courses, this text also serves well as

a general reference for graduate studies. The Earth's Ionosphere: Plasma Physics and Electrodynamics emphasizes the study of plasma physics and electrodynamics of the ionosphere, including many aeronautical influences. The ionosphere is somewhat of a battleground between the earth's neutral atmosphere and the sun's fully ionized atmosphere, in which the earth is embedded. One of the challenges of ionosphere research is to know enough about these two vast fields of research to make sense out of ionospheric phenomena. This book provides insights into how

these competing sources of mass, momentum, and energy compete for control of the ionosphere. Some of the topics discussed include the fundamentals of ionospheric plasma dynamics; equatorial plasma instabilities; high-latitude electrodynamics; and instabilities and structure in the high-latitude ionosphere. Throughout this text only the region above 90 km are discussed, ignoring the D region entirely. This publication is a good source of information for students and individuals conducting research on earth's ionosphere. For junior/senior-level

electricity and magnetism courses. This book is known for its clear, concise, and accessible coverage of standard topics in a logical and pedagogically sound order. The highly polished Fourth Edition features a clear, easy-to-understand treatment of the fundamentals of electromagnetic theory, providing a sound platform for the exploration of related applications (AC circuits, antennas, transmission lines, plasmas, optics, etc.). Its lean and focused approach employs numerous new examples and problems. The need for a second edition of our text on Quantum Electrodynamics

has given us the opportunity to implement some corrections and amendments. We have corrected a number of misprints and minor errors and have supplied additional explanatory remarks at various places. Furthermore some new material has been included on the magnetic moment of the muon (in Example 5. 6) and on the Lamb shift (in Example 5. 8). Finally, we have added the new Example 3. 17 which explains the equivalent photon method. We thank several colleagues for helpful comments and also are grateful to Dr. R. Mattiello who has supervised the

preparation of the second edition of the book. Furthermore we acknowledge the agreeable collaboration with Dr. H. J. K6lsch and his team at Springer-Verlag, Heidelberg. Frankfurt am Main, Walter Greiner July 1994 Joachim Reinhardt Preface to the First Edition Theoretical physics has become a many-faceted science. For the young student it is difficult enough to cope with the overwhelming amount of new scientific material that has to be learned, let alone obtain an overview of the entire field, which ranges from mechanics through electrodynamics, quantum

mechanics, field theory, nuclear and heavy-ion science, statistical mechanics, thermodynamics, and solid state theory to elementary-particle physics. And this knowledge should be acquired in just 8-10 semesters, during which, in addition, a Diploma or Master's thesis has to be worked on or examinations prepared for. "The opening chapter of An Essential Guide to Electrodynamics describes a new theory of the electron, from which derives a fully deductive explanation of the chemical inertness of the group 18 elements of the periodic system. The authors propose that there

is a need to present the detailed mathematical steps that are required to prove the equations of Maxwell textbooks and course instruction to help students gain a firm grasp of the equations and their applications. Additionally, this compilation examines the wave equation for the electromagnetic 4-potential, which has a form that explicitly involves the 4-velocity vector of a moving frame. Hence, Minkowski electrodynamics implies the absolute nature of mechanical motion in medium. Next, the authors represent the electromagnetic field from different and unknown points

of view, and the duality of natural time is considered. Chapter five is focused on an accurate and profound investigation, interpretation and explanation of resonant and anomalous phenomena in radiated electromagnetic fields that arises due to the passage of charged particle beams over arbitrary-shaped periodic interfaces of natural or artificial material. Later, it is shown that a suitable modification of the Lee-Wick idea can also lead to linear potential at large distances. For this purpose, the authors study an Abelian model that "simulates" the

quantum chromodynamics confining phase while maintaining the Coulomb behaviour at short distances. In the final chapter, the authors present a generalization of the transformation of the electromagnetic field from the frame co-moving with an accelerated particle into an inertial frame of reference and from an inertial frame into the frame co-moving with a moving particle"-- Gauss's law for electric fields, Gauss's law for magnetic fields, Faraday's law, and the Ampere-Maxwell law are four of the most influential equations in science. In this guide for students,

each equation is the subject of an entire chapter, with detailed, plain-language explanations of the physical meaning of each symbol in the equation, for both the integral and differential forms. The final chapter shows how Maxwell's equations may be combined to produce the wave equation, the basis for the electromagnetic theory of light. This book is a wonderful resource for undergraduate and graduate courses in electromagnetism and electromagnetics. A website hosted by the author at www.cambridge.org/9780521701471 contains interactive solutions to every

problem in the text as well as audio podcasts to walk students through each chapter. In this book Carver Mead offers a radically new approach to the standard problems of electromagnetic theory. Motivated by the belief that the goal of scientific research should be the simplification and unification of knowledge, he describes a new way of doing electrodynamics—collective electrodynamics—that does not rely on Maxwell's equations, but rather uses the quantum nature of matter as its sole basis. Collective electrodynamics is a way of looking at how electrons

interact, based on experiments that tell us about the electrons directly. (As Mead points out, Maxwell had no access to these experiments.) The results Mead derives for standard electromagnetic problems are identical to those found in any text. Collective electrodynamics reveals, however, that quantities that we usually think of as being very different are, in fact, the same—that electromagnetic phenomena are simple and direct manifestations of quantum phenomena. Mead views his approach as a first step toward reformulating quantum concepts in a clear and

comprehensible manner. The book is divided into five sections: magnetic interaction of steady currents, propagating waves, electromagnetic energy, radiation in free space, and electromagnetic interaction of atoms. In an engaging preface, Mead tells how his approach to electromagnetic theory was inspired by his interaction with Richard Feynman. "Remarkably comprehensive, concise and clear." — Industrial Laboratories
"Considered as a condensed text in the classical manner, the book can well be recommended." — Nature Here is a clear introduction

to classic vector and tensor analysis for students of engineering and mathematical physics. Chapters range from elementary operations and applications of geometry, to application of vectors to mechanics, partial differentiation, integration, and tensor analysis. More than 200 problems are included throughout the book. The 1988 Nobel Prize winner establishes the subject's mathematical background, reviews the principles of electrostatics, then introduces Einstein's special theory of relativity and applies it to

topics throughout the book. An engaging writing style and a strong focus on the physics make this graduate-level textbook a must-have for electromagnetism students. Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. This all-in-one-package includes more than 350 fully solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 20 detailed videos featuring instructors who explain the most commonly tested problems--it's just like having your own virtual tutor! You'll find

everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you 351 fully solved problems Exercises to help you test your mastery of electromagnetics

Support for all the major textbooks for electromagnetic courses 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. This textbook offers a clear and comprehensive introduction to electrodynamics, one of the core components of undergraduate physics courses. The first part of the book describes the interaction of electric charges and magnetic moments by introducing electro- and magnetostatics. The second part of

the book establishes deeper understanding of electrodynamics with the Maxwell equations, quasistationary fields and electromagnetic fields. All sections are accompanied by a detailed introduction to the math needed. Ideally suited to undergraduate students with some grounding in classical and analytical mechanics, the book is enhanced throughout with learning features such as boxed inserts and chapter summaries, with key mathematical derivations highlighted to aid understanding. The text is supported by numerous worked examples and end

of chapter problem sets. About the Theoretical Physics series Translated from the renowned and highly successful German editions, the eight volumes of this series cover the complete core curriculum of theoretical physics at undergraduate level. Each volume is self-contained and provides all the material necessary for the individual course topic. Numerous problems with detailed solutions support a deeper understanding. Wolfgang Nolting is famous for his refined didactical style and has been referred to as the "German Feynman" in reviews. Winner of the 2007 Pfizer Prize from the

History of Science Society. Feynman diagrams have revolutionized nearly every aspect of theoretical physics since the middle of the twentieth century. Introduced by the American physicist Richard Feynman (1918-88) soon after World War II as a means of simplifying lengthy calculations in quantum electrodynamics, they soon gained adherents in many branches of the discipline. Yet as new physicists adopted the tiny line drawings, they also adapted the diagrams and introduced their own interpretations. Drawing Theories Apart traces how generations of

young theorists learned to frame their research in terms of the diagrams—and how both the diagrams and their users were molded in the process. Drawing on rich archival materials, interviews, and more than five hundred scientific articles from the period, Drawing Theories Apart uses the Feynman diagrams as a means to explore the development of American postwar physics. By focusing on the ways young physicists learned new calculational skills, David Kaiser frames his story around the crafting and stabilizing of the basic tools in the physicist's kit—thus offering the first book to

follow the diagrams once they left Feynman's hands and entered the physics vernacular. This book addresses the theoretical foundations and the main physical consequences of electromagnetic interaction, generally considered to be one of the four fundamental interactions in nature, in a mathematically rigorous yet straightforward way. The major focus is on the unifying features shared by classical electrodynamics and all other fundamental relativistic classical field theories. The book presents a balanced blend of derivations of phenomenological

predictions from first principles on the one hand, and concrete applications on the other. Further, it highlights the internal inconsistencies of classical electrodynamics, and addresses and resolves often-ignored critical issues, such as the dynamics of massless charged particles, the infinite energy of the electromagnetic field, and the limits of the Green's function method. Presenting a rich, multilayered, and critical exposition on the electromagnetic paradigm underlying the whole Universe, the book offers a valuable resource for researchers and

graduate students in theoretical physics alike. Classical Electrodynamics captures Schwinger's inimitable lecturing style, in which everything flows inexorably from what has gone before. Novel elements of the approach include the immediate inference of Maxwell's equations from Coulomb's law and (Galilean) relativity, the use of action and stationary principles, the central role of Green's functions both in statics and dynamics, and, throughout, the integration of mathematics and physics. Thus, physical problems in electrostatics are

used to develop the properties of Bessel functions and spherical harmonics. The latter portion of the book is devoted to radiation, with rather complete treatments of synchrotron radiation and diffraction, and the formulation of the mode decomposition for waveguides and scattering. Consequently, the book provides the student with a thorough grounding in electrodynamics in particular, and in classical field theory in general, subjects with enormous practical applications, and which are essential prerequisites for the study of quantum field theory. An essential

resource for both physicists and their students, the book includes a "Reader's Guide," which describes the major themes in each chapter, suggests a possible path through the book, and identifies topics for inclusion in, and exclusion from, a given course, depending on the instructor's preference. Carefully constructed problems complement the material of the text, and introduce new topics. The book should be of great value to all physicists, from first-year graduate students to senior researchers, and to all those interested in electrodynamics, field theory, and mathematical

physics. The text for the graduate classical electrodynamics course was left unfinished upon Julian Schwinger's death in 1994, but was completed by his coauthors, who have brilliantly recreated the excitement of Schwinger's novel approach. Learning Electrodynamics doesn't have to be boring. What if there was a way to learn Electrodynamics without all the usual fluff? What if there were a book that allowed you to see the whole picture and not just tiny parts of it? Thoughts like this are the reason that No-Nonsense Electrodynamics now exists. What will you learn from

this book? Get to know all fundamental electrodynamical concepts — Grasp why we can describe electromagnetism using the electric and magnetic field, the electromagnetic field tensor and the electromagnetic potential and how these concepts are connected. Learn to describe Electrodynamics mathematically — Understand the meaning and origin of the most important equations: Maxwell's equations & the Lorentz force law. Master the most important electrodynamical systems — read step-by-step calculations and understand the

general algorithm we use to describe them. Get an understanding you can be proud of — Learn why Special Relativity owes its origins to Electrodynamics and how we can understand it as a gauge theory. No-Nonsense Electrodynamics is the most student-friendly book on Electrodynamics ever written. Here's why. First of all, it's is nothing like a formal university lecture. Instead, it's like a casual conversation with a more experienced student. This also means that nothing is assumed to be "obvious" or "easy to see". Each chapter, each section, and each page focusses solely on the goal to

help you understand. Nothing is introduced without a thorough motivation and it is always clear where each formula comes from. The book contains no fluff since unnecessary content quickly leads to confusion. Instead, it ruthlessly focusses on the fundamentals and makes sure you'll understand them in detail. The primary focus on the readers' needs is also visible in dozens of small features that you won't find in any other textbook. In total, the book contains more than 100 illustrations that help you understand the most important concepts visually.

In each chapter, you'll find fully annotated equations and calculations are done carefully step-by-step. This makes it much easier to understand what's going on in. Whenever a concept is used which was already introduced previously, there is a short sidenote that reminds you where it was first introduced and often recites the main points. In addition, there are summaries at the beginning of each chapter that make sure you won't get lost. This updated and expanded second edition of the Introduction to Electrodynamics (4th Edition) provides a user-friendly

introduction to the subject Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business. This text provides a quantitative introduction to general relativity for advanced

undergraduate and graduate students. Classical Electrodynamics: Lecture notes is intended to be the basis for a two-semester graduate-level course on electricity and magnetism, including not only the interaction and dynamics charged point particles, but also properties of dielectric, conducting, and magnetic media. The course also covers special relativity, including its kinematics and particle-dynamics aspects, and electromagnetic radiation by relativistic particles. Essential Advanced Physics is a series comprising four parts: Classical Mechanics, Classical

Electrodynamics, Quantum Mechanics and Statistical Mechanics. Each part consists of two volumes, Lecture notes and Problems with solutions, further supplemented by an additional collection of test problems and solutions available to qualifying university instructors. This volume, Classical Electrodynamics: Lecture notes is intended to be the basis for a two-semester graduate-level course on electricity and magnetism, including not only the interaction and dynamics charged point particles, but also properties of dielectric, conducting, and

magnetic media. The course also covers special relativity, including its kinematics and particle-dynamics aspects, and electromagnetic radiation by relativistic particles. Der Grundkurs Theoretische Physik deckt in 7 Bänden alle für das Diplom und für Bachelor/Master-Studiengänge maßgeblichen Gebiete ab. Jeder Band vermittelt das im jeweiligen Semester notwendige theoretisch-physikalische Rüstzeug. Übungsaufgaben mit ausführlichen Lösungen dienen der Vertiefung des Stoffs. Der 4. Band behandelt die Gebiete

Thermodynamik und Relativitätstheorie. Für die Neuauflage wurde er grundlegend überarbeitet und um 24 Aufgaben ergänzt. Durch die zweifarbige Gestaltung ist der Stoff jetzt noch übersichtlicher gegliedert. Introduction to Electrodynamics and Radiation introduces the reader to electrostatics and radiation, with emphasis on the microscopic theory of electricity and magnetism. Nonrelativistic quantum electrodynamics (QED) is presented as a logical outgrowth of the classical theory, both relativistic and nonrelativistic. The

advanced mathematical and diagrammatic techniques of the relativistic quantum field theory are also described in a simple and easily understood manner. Comprised of 16 chapters, this book opens with an overview of the special theory of relativity and some of its consequences. The following chapters deal with classical relativistic electrodynamics, touching on topics such as tensor analysis and Riemannian spaces; radiation from charged particles; radiation scattering from electrons; and the classical theory of charged particles. The second part of the book is entirely quantum

mechanical in outlook, beginning with the quantization of the Hamiltonian formulation of classical electrodynamics. The many-body formalism leading to Fock-space techniques is also considered, along with self-energies and renormalization. The final chapter is devoted to the covariant formulation of QED as well as the validity of QED. This monograph is written primarily for graduate students in elementary classical and quantum mechanics, electricity and magnetism, and modern physics courses. This is a

re-issued and affordable printing of the widely used undergraduate electrodynamics textbook. For 50 years, Edward M. Purcell's classic textbook has introduced students to the world of electricity and magnetism. The third edition has been brought up to date and is now in SI units. It features hundreds of new examples, problems, and figures, and contains discussions of real-life applications. The textbook covers all the standard introductory topics, such as electrostatics, magnetism, circuits, electromagnetic waves, and electric and magnetic fields

in matter. Taking a nontraditional approach, magnetism is derived as a relativistic effect. Mathematical concepts are introduced in parallel with the physics topics at hand, making the motivations clear. Macroscopic phenomena are derived rigorously from the underlying microscopic physics. With worked examples, hundreds of illustrations, and nearly 600 end-of-chapter problems and exercises, this textbook is ideal for electricity and magnetism courses. Solutions to the exercises are available for instructors at www.cambridge.org/Purcell-Morin.

This edition of Einstein's *On the Electrodynamics of Moving Bodies* is based on the English translation of his original 1905 German-language paper (published as *Zur Elektrodynamik bewegter Körper*, in *Annalen der Physik*. 17:891, 1905) which appeared in the book *The Principle of Relativity*, published in 1923 by Methuen and Company, Ltd. of London. Most of the papers in that collection are English translations from the German *Das Relativitätsprinzip*, 4th ed., published in 1922 by Tuebner. The third volume in the bestselling physics series cracks open Einstein's special

relativity and field theory. Physicist Leonard Susskind and data engineer Art Friedman are back. This time, they introduce readers to Einstein's special relativity and Maxwell's classical field theory. Using their typical brand of real math, enlightening drawings, and humor, Susskind and Friedman walk us through the complexities of waves, forces, and particles by exploring special relativity and electromagnetism. It's a must-read for both devotees of the series and any armchair physicist who wants to improve their knowledge of physics' deepest truths. 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.

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