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Advances in Magnetic Resonance, Volume 3, describes a number of important developments which are finding increasing application by chemists. The book contains five chapters and begins with a discussion of how the properties of random molecular rotations reflect themselves in NMR and how they show up, often differently, in other kinds of experiments. This is followed by separate chapters on the Kubo method, showing its equivalence to the Redfield approach in the cases of most general interest; the current state of dynamic nuclear polarization measurements in solutions and what they tell us about the interactions of molecules and about the frequency spectra of molecular motions; and insights into the structures of ferroelectric crystals and the nature of the transition to the ferroelectric state. The final chapter discusses spin temperatures and related matters. Contours of African American Politics chronicles the systematic study of African American politics and its subsequent recognition as an established field of scholarly inquiry. African American politics emanates from the demands of the prolonged struggle for black liberation and empowerment. Hence, the

study of African American politics has sought to track, codify, and analyze the struggle that has been mounted, and to understand the historic and changing political status of African Americans within American society. The notion of a post-racial America is one that was birthed by the election of Barack Obama as the first African American president of the United States. However, another reality is equally compelling: that for some time now, many African American aspirants for elective office have run against race-specific issues, putting individual desires to win office above the conventionally defined collective interests of black folk. Clearly, the Obama presidential election crystallized a complexity of change that had been underway in America prior to his election. Indeed, did the Obama election signal the end of black politics? Does race remain a useful construct for framing the collective interests of African Americans? Volume III of *Contours of African American Politics* examines all of these questions in an effort to understand the more poignant question of the future of that which we have known as black politics. Outlines the role of science in restoring or otherwise altering unwanted downstream effects of dams, including eroding river banks, changes in waterfowl habitat, threats to safe recreational use, and the loss of river sand bars, examining seven selected areas of the country -- the upper Salt River in central Arizona; the Snake River in Idaho, Oregon and Washington; the Rio Grande in New Mexico and Texas; the Chattahoochee River in Georgia; the Platte River in Wyoming, Colorado and Nebraska; the Green River in Utah; and the Colorado River in Arizona -- to focus on specific downstream effects of dams and the management issues related to their operation. This book is an educational resource of evolving scientific knowledge in the area of bioelectromagnetics that may serve the interests of students and decision-makers, as well as society as a whole. It is distinguished by extensive descriptions of fundamental biophysical concepts and their relevance to human health. Reflecting the transdisciplinary approach from several different intellectual streams including physics, biology, epidemiology, medicine, environment, risk science, and engineering, the book is quite a venture into the battling studies to assess the latest research on health effects and biomedical applications of EM energy. This new edition of the book particularly looks at the potential threats from the emerging 5G wireless networks, which will deploy large numbers of low-powered smartphones, notebooks, tablets, radio access networks, and other transmitters. Features Introduces necessary biophysical principles of EM fields in the context of their interaction with living systems. Strengthens understanding of cutting-edge research on several major areas in the broad area of bioelectromagnetics. Presents safety standards and guidelines for human exposure to EM fields. Discusses techniques that have been developed to ensure adequate EM-thermal dosimetry required for both health effects and biomedical applications. Provides insight into the determinants of EM health risk assessment and public concerns. Includes extensive reference list at the end of each chapter to enhance further study. Riadh Habash is a special appointment professor and McLaughlin Research Chair in Electromagnetic Fields and Health at the University of Ottawa, Canada. He

has been the recipient of many awards, including the National Wighton Fellowship Award, and has authored or co-authored over 90 research articles, six books, and five book chapters. His most recent books are *Green Engineering* in 2017 and *Professional Practice* in 2019 (CRC Press), with the remaining previous books targeting the area of bioelectromagnetics. 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. A self-contained guide to the Physics GRE, reviewing all of the topics covered alongside three practice exams with fully worked solutions. 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 other media Metamaterials and solitons in optical fibers, nonlinear phenomena, and porous media Primarily a textbook for graduate courses in electrical engineering,

Electromagnetic Wave Propagation, Radiation, and Scattering is also ideal for graduate students in bioengineering, geophysics, ocean engineering, and geophysical remote sensing. The book is also a useful reference for engineers and scientists working in fields such as geophysical remote sensing, bio-medical engineering in optics and ultrasound, and new materials and integration with signal processing. This concise treatment embraces, in four parts, all the main aspects of theoretical physics. Recent topics such as holography and quantum cryptography are included. The book summarizes what a graduate student, physicist working in industry, or a physics teacher should master during his or her degree course. It will also be useful for deepening one's insight and it adds new dimensions to understanding of these elemental concepts. This is the fifth edition of a well-established textbook. It is intended to provide a thorough coverage of the fundamental principles and techniques of classical mechanics, an old subject that is at the base of all of physics, but in which there has also in recent years been rapid development. The book is aimed at undergraduate students of physics and applied mathematics. It emphasizes the basic principles, and aims to progress rapidly to the point of being able to handle physically and mathematically interesting problems, without getting bogged down in excessive formalism. Lagrangian methods are introduced at a relatively early stage, to get students to appreciate their use in simple contexts. Later chapters use Lagrangian and Hamiltonian methods extensively, but in a way that aims to be accessible to undergraduates, while including modern developments at the appropriate level of detail. The subject has been developed considerably recently while retaining a truly central role for all students of physics and applied mathematics. This edition retains all the main features of the fourth edition, including the two chapters on geometry of dynamical systems and on order and chaos, and the new appendices on conics and on dynamical systems near a critical point. The material has been somewhat expanded, in particular to contrast continuous and discrete behaviours. A further appendix has been added on routes to chaos (period-doubling) and related discrete maps. The new edition has also been revised to give more emphasis to specific examples worked out in detail. Classical Mechanics is written for undergraduate students of physics or applied mathematics. It assumes some basic prior knowledge of the fundamental concepts and reasonable familiarity with elementary differential and integral calculus. Contents: Linear Motion Energy and Angular Momentum Central Conservative Forces Rotating Frames Potential Theory The Two-Body Problem Many-Body Systems Rigid Bodies Lagrangian Mechanics Small Oscillations and Normal Modes Hamiltonian Mechanics Dynamical Systems and Their Geometry Order and Chaos in Hamiltonian Systems Appendices: Vectors Conics Phase Plane Analysis Near Critical Points Discrete Dynamical Systems — Maps Readership: Undergraduates in physics and applied mathematics. Since 1985, scientists have been documenting a hypoxic zone in the Gulf of Mexico each year. The hypoxic zone, an area of low dissolved oxygen that cannot support marine life, generally manifests itself in the spring. Since marine species either die or flee the hypoxic zone, the spread of

hypoxia reduces the available habitat for marine species, which are important for the ecosystem as well as commercial and recreational shing in the Gulf. Since 2001, the hypoxic zone has averaged 216,500 km during its peak summer months, an area slightly larger than the state of Connecticut, and ranged from a low of 8,500 km to a high of 22,000 km. To address the hypoxia problem, the Mississippi River/Gulf of Mexico Watershed Nutrient Task Force (or Task Force) was formed to bring together representatives from federal agencies, states, and tribes to consider options for responding to hypoxia. The Task Force asked the White House Office of Science and Technology Policy to conduct a scientific assessment of the causes and consequences of Gulf hypoxia through its Committee on Environment and Natural Resources (CENR). This revised edition provides patient guidance in its clear and organized presentation of problems. It is rich in variety, large in number and provides very careful treatment of relativity. One outstanding feature is the inclusion of simple, standard examples demonstrated in different methods that will allow students to enhance and understand their calculating abilities. There are over 145 worked examples; virtually all of the standard problems are included. Electrostatics - Magnetostatic field and quasi-stationary electromagnetic fields - Circuit analysis - Electromagnetic waves - Relativity, particle-field interactions. The former UCLA men's basketball coach reflects on his career, his life outside of basketball, and the impact some of his top players had on the NBA. Cleverly revealing the basics of reproduction in an age-appropriate way, award-winning Sophie Blackall has created a beautiful picture book full of playful details to amuse and engage readers. Sooner or later, every child will ask, Where do babies come from? Answering this question has never been this easy or entertaining! Join a curious little boy who asks everyone from his babysitter to the mailman, getting all sorts of funny answers along the way, before his parents gently set him straight. This text is designed for an intermediate-level, two-semester undergraduate course in mathematical physics. It provides an accessible account of most of the current, important mathematical tools required in physics these days. It is assumed that the reader has an adequate preparation in general physics and calculus. The book bridges the gap between an introductory physics course and more advanced courses in classical mechanics, electricity and magnetism, quantum mechanics, and thermal and statistical physics. The text contains a large number of worked examples to illustrate the mathematical techniques developed and to show their relevance to physics. The book is designed primarily for undergraduate physics majors, but could also be used by students in other subjects, such as engineering, astronomy and mathematics. 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. Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June) An engaging writing style and a strong focus on the physics make this graduate-level textbook a must-have for electromagnetism students. Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage. Designed to be used as a graduate-level text and as an engineering reference work, "Continuum Electromechanics" presents a comprehensive development of its subject--the interaction of electromagnetic forces and ponderable media, the mechanical responses to electromagnetic fields, and the reciprocal effects of the material motions produced by those fields. The author's approach is highly interdisciplinary, and he introduces fundamental concepts from such subjects as electrohydrodynamics, magnetohydrodynamics, plasma physics, electron beam engineering, fluid mechanics, heat transfer, and physical chemistry. The applications of continuum electromechanics are also remarkably diverse, and many of them are treated in the book, both because of their intrinsic engineering importance and as a means of illustrating basic principles. Among these applications are the design of rotating machines and synchronous generators, polymer processing, magnetic melting and pumping in metallurgical operations, the processing of plastics and glass, the manufacture of synthetic fibers, inductive and dielectric heating, thermal-to-electrical energy conversion, the control of air pollution, the design of controlled-fusion devices, image processing and printing, the magnetic levitation and propulsion of vehicles, the study of films and membranes, and the analysis of the complex electrokinetic and physicochemical processes that underlie the sensing and motor functions of biological systems. Many of these applications are presented in the form of problems. The book consists of eleven chapters, entitled Introduction to Continuum Electromechanics; Electrodynamics Laws; Approximations, and Relations; Electromagnetic Forces, Force Densities, and Stress Tensors; Electromechanical Kinematics; Energy-Conversion Models and Processes; Charge Migration, Convection, and Relaxation; Magnetic Diffusion and Induction Interactions; Laws, Approximations, and Relations of Fluid Mechanics Statics and Dynamics of Systems Having a Static Equilibrium; Electromechanical Flows; Electromechanics with Thermal and Molecular Diffusion; and Streaming Interactions. This work will provide a detailed account of cross-relaxation and cross-correlation which would be timely and fill a gap in the present NMR literature for the analytical scientist. 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.

In the past, African American aspirations for political office were assumed to be limited to areas with sizeable black population bases. By and large, black candidates have rarely been successful in statewide or national elections. This has been attributed to several factors: limited resources available to African American candidates, or identification with a black liberationist ideological thrust. Other factors have been a relatively small and spatially concentrated primary support base of black voters, and the persistent resistance of many white voters to support black candidates. For these reasons, the possibility of black candidates winning elections to national office was presumably just a dream. Conventional wisdom conceded a virtual cap on both the possible number of black elected officials and the level of elective office to which they could ascend. But objective political analysis has not always made sufficient allowances for the more universal phenomenon of individual political ambitions. The contributors to this volume explore the ways ambitious individuals identified and seized upon strategies that are expanding the boundaries of African American electoral politics. This volume is anchored by a symposium that focuses on new possibilities in African American politics. Both the electoral contests of 2006 and the Barack Obama presidential campaign represent an emergent dynamic in American electoral politics. Analysts are beginning to agree that the contours of social change now make the electoral successes of black candidates who are perceived as ideologically and culturally mainstream increasingly likely. The debate captured in this volume will likely inspire further scholarly inquiry into the changing nature and dimensions of the larger dynamic of race in American politics and the subsequent changing political fortunes of African American candidates. 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. Writing a new book on the classic subject of Special Relativity, on which numerous important physicists have contributed and many books have already been written, can be like adding another epicycle to the Ptolemaic cosmology. Furthermore, it is our belief that if a book has no new elements, but simply repeats what is written in the existing literature, perhaps with a different style, then this is not enough to justify its publication. However, after having spent a number of years, both in class and research with relativity, I have come to the conclusion that there exists a place for a new book. Since it appears that somewhere along the way, mathematics may have obscured and prevailed to the degree that we tend to teach relativity (and I believe, theoretical physics) simply using "heavier" mathematics without the inspiration and the mastery of the classic physicists of the last century. Moreover current trends encourage the application of techniques in producing quick results and not tedious conceptual approaches resulting in long-lasting reasoning. On the other hand, physics cannot be done a la carte stripped from philosophy, or, to put it in a simple but dramatic context A building is not an accumulation of stones! As a result of the above, a major aim in the writing of this book has been the distinction between the mathematics of Minkowski space and the physics of relativity. A unique resource exploring the nature of computers and computing, and their relationships to the world. Philosophy of Computer Science is a university-level textbook designed to guide readers through an array of topics at the intersection of philosophy and computer science. Accessible to students from either discipline, or complete beginners to both, the text brings readers up to speed on a conversation about these issues, so that they can read the literature for themselves, form their own reasoned opinions, and become part of the conversation by contributing their own views. Written by a highly qualified author in the field, the book looks at some of the central questions in the philosophy of computer science, including: What is philosophy? (for readers who might be unfamiliar with it) What is computer science and its relationship to science and to engineering? What are computers, computing, algorithms, and programs?(Includes a line-by-line reading of portions of Turing's classic 1936 paper that introduced Turing Machines, as well as discussion of the Church-Turing Computability Thesis and hypercomputation challenges to it) How do computers and computation relate to the physical world? What is artificial intelligence, and should we build AIs? Should we trust decisions made by computers? A companion website contains annotated suggestions for further reading and an instructor's manual. Philosophy of Computer Science is a must-have for philosophy students, computer scientists, and general readers who want to think philosophically about computer science.

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