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KEY=EDITION - GUADALUPE LIZETH

Fundamentals of Nursing Models, Theories and Practice, with Wiley E-Text

John Wiley & Sons A concise, accessible introduction to the development, application and evaluation of nursing theories, this new edition of Fundamentals of Nursing Models, Theories & Practice provides a thorough overview of the body of knowledge on the topic, and a clear outline of their relevance to everyday nursing practice. Linking the development of theory to practice, this full-updated text features learning outcomes, key concept summaries and reflective exercises to aid the study of this key element of all modern nursing courses. Special Features Clearly examines the relationship between nursing theory, clinical practice and nursing roles Accessible and user-friendly with a range of features to help study, including key concepts, learning objectives and reflective exercises Useful for all pre-registration nursing students, as well as newly qualified nurses Accompanied by an online resource centre featuring case studies, multiple choice questions, exercises and activities

Introduction to Electrodynamics

Addison-Wesley 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.

Advances in Electromagnetic Fields in Living Systems

Springer Science & Business Media This is the third volume in the series, in which the topic of the effects of radio frequencies on human tissue, now increasingly a concern with the prevalence of cell phones, is explored by Prof. Lin and other researchers. The impact of electromagnetics on imaging and cardiology, both very keen areas of research at present, is also explored.

Dynamics of Internal Gravity Waves in the Ocean

Springer Science & Business Media This monograph creates a systematic interpretation of the theoretical and the most actual experimental aspects of the internal wave dynamics in the ocean. Firstly, it draws attention to the important physical effects from an oceanographical point of view which are presented in mathematical descriptions. Secondly, the book serves as an introduction to the range of modern ideas and the methods in the study of wave processes in dispersive media. The book is meant for specialists in physics of the ocean, oceanography, geophysics, hydroacoustics.

Clinical Functional MRI

Presurgical Functional Neuroimaging

Springer Nature

Medical Imaging Physics

John Wiley & Sons This comprehensive publication covers all aspects of image formation in modern medical imaging modalities, from radiography, fluoroscopy, and computed tomography, to magnetic resonance imaging and ultrasound. It addresses the techniques and instrumentation used in the rapidly changing field of medical imaging. Now in its fourth edition, this text provides the reader with

the tools necessary to be comfortable with the physical principles, equipment, and procedures used in diagnostic imaging, as well as appreciate the capabilities and limitations of the technologies.

Introduction to Electrodynamics

The first edition of this textbook (1981) is cited in BCL3. The second includes: introduction to the Dirac Delta Function, the Helmholtz Theorem, and a brief treatment of waveguides. New problems have been added. No bibliography. Annotation copyright Book News, Inc. Portland, Or.

How Things Work

The Physics of Everyday Life

John Wiley & Sons How Things Work provides an accessible introduction to physics for the non-science student. Like the previous editions it employs everyday objects, with which students are familiar, in case studies to explain the most essential physics concepts of day-to-day life. Lou Bloomfield takes seemingly highly complex devices and strips away the complexity to show how at their heart are simple physics ideas. Once these concepts are understood, they can be used to understand the behavior of many devices encountered in everyday life. The sixth edition uses the power of WileyPLUS Learning Space with Orion to give students the opportunity to actively practice the physics concepts presented in this edition. This text is an unbound, three hole punched version. Access to WileyPLUS sold separately.

Electrodynamics of Continuous Media

Elsevier Covers the theory of electromagnetic fields in matter, and the theory of the macroscopic electric and magnetic properties of matter. There is a considerable amount of new material particularly on the theory of the magnetic properties of matter and the theory of optical phenomena with new chapters on spatial dispersion and non-linear optics. The chapters on ferromagnetism and antiferromagnetism and on magnetohydrodynamics have been substantially enlarged and eight other chapters have additional sections.

British Books in Print

The Finite Element Method in Electromagnetics

John Wiley & Sons A new edition of the leading textbook on the finite element method, incorporating major advancements and further applications in the field of electromagnetics The finite element method (FEM) is a powerful simulation technique used to solve boundary-value problems in a variety of engineering circumstances. It has been widely used for analysis of electromagnetic fields in antennas, radar scattering, RF and microwave engineering, high-speed/high-frequency circuits, wireless communication, electromagnetic compatibility, photonics, remote sensing, biomedical engineering, and space exploration. The Finite Element Method in Electromagnetics, Third Edition explains the method’s processes and techniques in careful, meticulous prose and covers not only essential finite element method theory, but also its latest developments and applications—giving engineers a methodical way to quickly master this very powerful numerical technique for solving practical, often complicated, electromagnetic problems. Featuring over thirty percent new material, the third edition of this essential and comprehensive text now includes: A wider range of applications, including antennas, phased arrays, electric machines, high-frequency circuits, and crystal photonics The finite element analysis of wave propagation, scattering, and radiation in periodic structures The time-domain finite element method for analysis of wideband antennas and transient electromagnetic phenomena Novel domain decomposition techniques for parallel computation and efficient simulation of large-scale problems, such as phased-array antennas and photonic crystals Along with a great many examples, The Finite Element Method in Electromagnetics is an ideal book for engineering students as well as for professionals in the field.

Electric Fields of the Brain

The Neurophysics of EEG

Oxford University Press, USA This work investigates the connections between psychology and physiology. Topics include synaptic sources, electrode placement, choice of reference, volume conduction, power and coherence, projection of scalp potentials to dura surface, dynamic signatures of conscious experience and more.--[Source inconnue].

Bio-inspired Information and Communication Technologies

11th EAI International Conference, BICT 2019, Pittsburgh, PA, USA, March 13–14, 2019, Proceedings

Springer This book constitutes the refereed conference proceedings of the 11th International Conference on Bio-Inspired Information and Communications Technologies, held in Pittsburgh, PA, USA, in March 2019. The 13 revised full papers and 2 short papers were selected from 29 submissions. Past iterations of the conference have attracted contributions in Direct Bioinspiration (physical biological materials and systems used within technology) as well as Indirect Bioinspiration (biological principles, processes and mechanisms used within the design and application of technology). This year, the scope has expanded to include a third thrust: Foundational Bioinspiration (bioinspired aspects of game theory, evolution, information theory, and philosophy of science).

Handbook of Radiotherapy Physics

Theory and Practice, Second Edition, Two Volume Set

CRC Press From the essential background physics and radiobiology to the latest imaging and treatment modalities, the updated second edition of Handbook of Radiotherapy Physics: Theory & Practice covers all aspects of the subject. In Volume 1, Part A includes the Interaction of Radiation with Matter (charged particles and photons) and the Fundamentals of Dosimetry with an extensive section on small-field physics. Part B covers Radiobiology with increased emphasis on hypofractionation. Part C describes Equipment for Imaging and Therapy including MR-guided linear accelerators. Part D on Dose Measurement includes chapters on ionisation chambers, solid-state detectors, film and gels, as well as a detailed description and explanation of Codes of Practice for Reference Dose Determination including detector correction factors in small fields. Part E describes the properties of Clinical (external) Beams. The various methods (or ‘algorithms’) for Computing Doses in Patients irradiated by photon, electron and proton beams are described in Part F with increased emphasis on Monte-Carlo-based and grid-based deterministic algorithms. In Volume 2, Part G covers all aspects of Treatment Planning including CT-, MR- and Radionuclide-based patient imaging, Intensity-Modulated Photon Beams, Electron and Proton Beams, Stereotactic and Total Body Irradiation and the use of the dosimetric and radiobiological metrics TCP and NTCP for plan evaluation and optimisation. Quality Assurance fundamentals with application to equipment and processes are covered in Part H. Radionuclides, equipment and methods for Brachytherapy and Targeted Molecular Therapy are covered in Parts I and J, respectively. Finally, Part K is devoted to Radiation Protection of the public, staff and patients. Extensive tables of Physical Constants, Photon, Electron and Proton Interaction data, and typical Photon Beam and Radionuclide data are given in Part L. Edited by recognised authorities in the field, with individual chapters written by renowned specialists, this second edition of Handbook of Radiotherapy Physics provides the essential up-to-date theoretical and practical knowledge to deliver safe and effective radiotherapy. It will be of interest to clinical and research medical physicists, radiation oncologists, radiation technologists, PhD and Master’s students.

Catalog of Copyright Entries, Third Series

Maps and atlases

The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim (the name of the copyright claimant as given in the application for registration, the copyright date, the copyright registration number, etc.).

Introduction to Color Imaging Science

Cambridge University Press Colour imaging technology has become almost ubiquitous in modern life in the form of monitors, liquid crystal screens, colour printers, scanners, and digital cameras. This book is a comprehensive guide to the scientific and engineering principles of colour imaging. It covers the physics of light and colour, how the eye and physical devices capture colour images, how colour is measured and calibrated, and how images are processed. It stresses physical principles and includes a wealth of real-world examples. The book will be of value to scientists and engineers in the colour imaging industry and, with homework problems, can also be used as a text for graduate courses on colour imaging.

A History of the Ideas of Theoretical Physics

Essays on the Nineteenth and Twentieth Century Physics

Springer Science & Business Media This book presents a perspective on the history of theoretical physics over the past two hundreds years. It comprises essays on the history of pre-Maxwellian electrodynamics, of Maxwell's and Hertz's field theories, and of the present century's relativity and quantum physics. A common thread across the essays is the search for and the exploration of themes that influenced significant con ceptual changes in the great movement of ideas and experiments which heralded the emergence of theoretical physics (hereafter: TP). The fun. damental change involved the recognition of the scien tific validity of theoretical physics. In the second half of the nine teenth century, it was not easy for many physicists to understand the nature and scope of theoretical physics and of its adept, the theoreti cal physicist. A physicist like Ludwig Boltzmann, one of the eminent contributors to the new

discipline, confessed in 1895 that, "even the formulation of this concept [of a theoretical physicist] is not entirely without difficulty". 1 Although science had always been divided into theory and experiment, it was only in physics that theoretical work developed into a major research and teaching specialty in its own right. 2 It is true that theoretical physics was mainly a creation of tum of-the century German physics, where it received full institutional recognition, but it is also undeniable that outstanding physicists in other European countries, namely, Ampere, Fourier, and Maxwell, also had an important part in its creation.

Electromagnetic Field Theory

A Problem Solving Approach

John Wiley & Sons Develops problem solving confidence through a series of increasingly complex worked examples, emphasizing problems based on physical processes, devices, and models. Covers charges as the source of the electric field coupled to polarizable and conducting media with negligible magnetic field; currents as the source of the magnetic field coupled to magnetizable media with electromagnetic induction generating an electric field; and electrodynamics where the electric and magnetic fields are of equal importance resulting in radiating waves. Presents sample problems and solutions for each new concept, using different problem solving methods to demonstrate advantages and limitations of each approach. Clarifies the rigorous mathematical development by describing systems with linear, constant co-efficient differential and difference equations.

Electrodynamics of Magnetoactive Media

Springer Science & Business Media The main part of the book describes the behaviour of a charged particle in an electromagnetic field, and the electrodynamics of plasmas, liquid crystals and superconductors. These very different subjects have an important common feature, namely the fundamental role played by the magnetic field. Plasmas, liquid crystals and superconductors can be considered as magnetoactive media, because their electromagnetic characteristics are strongly affected by an external magnetic field.

Physics of the Pulsar Magnetosphere

Cambridge University Press This book presents the theory of the electrodynamic phenomena that occur in the magnetosphere of a pulsar. It also provides a clear picture of the formation and evolution of neutron stars. The authors address the basic physical processes of electron-positron plasma production, the generation of electric fields and currents, and the emission of radio waves and gamma rays. The book also reviews the current observational data, and devotes a complete chapter to a detailed comparison of this data with accepted theory and with some recent theoretical predictions. Tables containing the values of the physical parameters of all observed radio pulsars are also provided.

Magnetic Nanoparticles

Quantum Electrodynamics

Elsevier Several significant additions have been made to the second edition, including the operator method of calculating the bremsstrahlung cross-section, the calcualtion 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.

Subject Guide to Books in Print

A Pedestrian Approach to Quantum Field Theory

John Wiley & Sons

The Scientific Basis of Integrative Medicine, Second Edition

CRC Press Since the first suffering supplicant offered a prayer to his god or the first mother cradled an ailing child in her caring arms, we have witnessed how human health and healing goes beyond any inventory of parts and infusion of chemicals. We humans are a complex melding of thought, emotion, spirit, and energy and each of those components is as critical to our well-being as our physiological status. Even if we are just beginning to quantify and document these seemingly intangible aspects, to ignore them in the practice of medicine is neglect and an invitation to do harm. Now in its second edition, The Scientific Basis of Integrative Medicine continues to provide doctors and other health practitioners with information on complementary and alternative approaches to health, that is authoritative, scientifically based, and epidemiologically substantiated. Written for doctors and healthcare professionals by pioneering practitioners and updated with the newest research across an increasing range of possibilities, the new edition of this bestselling work – Establishes the scientific basis for the mind–body connection and then documents the puissant interactions of the

endocrine, immune, nervous, and stress systems that so profoundly influence our lives Examines that healing dimension of spirituality, which informs but transcends the five senses Investigates how hope, faith, and love aid healing Discusses how the emotional presence of a practitioner affects patient outcome Considers the incorporation of a unified theory that can account for the existence of health enhancing energy fields within — as well as outside — the human body Integral physiology serves as a bridge between Western medical knowledge and the equally valuable, but less well-recognized, Eastern systems of medicine. The authors refer to it as integrative because it combines important Western biological knowledge with forms of healing that incorporate the mental and emotional, and spiritual aspects that are essential to health, because those aspects are what make us essentially human.

Scientific and Clinical Applications of Magnetic Carriers

Springer Science & Business Media The discovery of uniform latex particles by polymer chemists of the Dow Chemical Company nearly 50 years ago opened up new exciting fields for scientists and physicians and established many new biomedical applications. Many in vitro diagnostic tests such as the latex agglutination tests, analytical cell and phagocytosis tests have since become rou tine. They were all developed on the basis of small particles bound to biological active molecules and fluorescent and radioactive markers. Further developments are ongoing, with the focus now shifted to applications of polymer particles in the controlled and di rected transport of drugs in living systems. Four important factors make microspheres interesting for in vivo applications: First, biocompatible polymer particles can be used to transport known amounts of drug and re lease them in a controlled fashion. Second, particles can be made of materials which bio degrade in living organisms without doing any harm. Third, particles with modified surfaces are able to avoid rapid capture by the reticuloendothelial system and therefore en hance their blood circulation time. Fourth, combining particles with specific molecules may allow organ-directed targeting.

National Library of Medicine Current Catalog

Cumulative listing

The Publishers' Trade List Annual

Early Quantum Electrodynamics

A Sourcebook

Cambridge University Press This book provides a panoramic view from 1927-1938 of the development of a physical theory that has been on the cutting-edge of theoretical physics ever since P. A. M. Dirac's quantization of the electromagnetic field in 1927: quantum electrodynamics. Like the classic papers chosen for this volume, the introductory Frame-Setting Essay emphasizes conceptual transformations which carried physicists to the threshold of renormalization theory. The published papers and correspondence of Bohr, Heisenberg, Dirac and Pauli provide a fascinating analysis of the meaning and structure of a scientific theory. This book goes beyond the historical and philosophical into current physics. Unavailability of English-language versions of certain key papers, some of which are provided in this book, has prevented their implications from being fully realized. Awareness of research from sixty years ago could well provide insights for future developments.

QED

The Strange Theory of Light and Matter

Princeton University Press Using everyday language, spatial concepts, visualizations and his renowned "Feynman diagrams," the author clearly and humorously communicates the substance and spirit of QED (quantum electodynamics).

Books in Print Supplement

Whitaker's Book List

The Evolution of Applied Harmonic Analysis

Models of the Real World

Springer Science & Business Media A sweeping exploration of essential concepts and applications in modern mathematics and science through the unifying framework of Fourier analysis! This unique, extensively illustrated book, accessible to specialists and non-specialists, describes the evolution of harmonic analysis, integrating theory and applications in a way that requires only some general mathematical sophistication and knowledge of calculus in certain sections. Historical sections interwoven with key scientific

developments show how, when, where, and why harmonic analysis evolved "The Evolution of Applied Harmonic Analysis" will engage graduate and advanced undergraduate students, researchers, and practitioners in the physical and life sciences, engineering, and mathematics.

Quantum Mechanics, Volume 3

Fermions, Bosons, Photons, Correlations, and Entanglement

John Wiley & Sons This new, third volume of Cohen-Tannoudji's groundbreaking textbook covers advanced topics of quantum mechanics such as uncorrelated and correlated identical particles, the quantum theory of the electromagnetic field, absorption, emission and scattering of photons by atoms, and quantum entanglement. Written in a didactically unrivalled manner, the textbook explains the fundamental concepts in seven chapters which are elaborated in accompanying complements that provide more detailed discussions, examples and applications. * Completing the success story: the third and final volume of the quantum mechanics textbook written by 1997 Nobel laureate Claude Cohen-Tannoudji and his colleagues Bernard Diu and Franck Laloë * As easily comprehensible as possible: all steps of the physical background and its mathematical representation are spelled out explicitly * Comprehensive: in addition to the fundamentals themselves, the books comes with a wealth of elaborately explained examples and applications Claude Cohen-Tannoudji was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris where he also studied and received his PhD in 1962. In 1973 he became Professor of atomic and molecular physics at the Collège des France. His main research interests were optical pumping, quantum optics and atom-photon interactions. In 1997, Claude Cohen-Tannoudji, together with Steven Chu and William D. Phillips, was awarded the Nobel Prize in Physics for his research on laser cooling and trapping of neutral atoms. Bernard Diu was Professor at the Denis Diderot University (Paris VII). He was engaged in research at the Laboratory of Theoretical Physics and High Energy where his focus was on strong interactions physics and statistical mechanics. Franck Laloë was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris. His first assignment was with the University of Paris VI before he was appointed to the CNRS, the French National Research Center. His research was focused on optical pumping, statistical mechanics of quantum gases, musical acoustics and the foundations of quantum mechanics.

The British National Bibliography

Monte Carlo Methods for Radiation Transport

Fundamentals and Advanced Topics

Springer This book is a guide to the use of Monte Carlo techniques in radiation transport. This topic is of great interest for medical physicists. Praised as a "gold standard" for accurate radiotherapy dose calculations, Monte Carlo has stimulated a high level of research activity that has produced thousands of papers within the past few years. The book is designed primarily to address the needs of an academically inclined medical physicist who wishes to learn the technique, as well as experienced users of standard Monte Carlo codes who wish to gain insight into the underlying mathematics of Monte Carlo algorithms. The book focuses on the fundamentals—giving full attention to and explaining the very basic concepts. It also includes advanced topics and covers recent advances such as transport of charged particles in magnetic fields and the grid-based solvers of the Boltzmann equation.

Introduction to Mass Spectrometry

Instrumentation, Applications, and Strategies for Data Interpretation

John Wiley & Sons Completely revised and updated, this text provides an easy-to-read guide to the concept of mass spectrometry and demonstrates its potential and limitations. Written by internationally recognised experts and utilising "real life" examples of analyses and applications, the book presents real cases of qualitative and quantitative applications of mass spectrometry. Unlike other mass spectrometry texts, this comprehensive reference provides systematic descriptions of the various types of mass analysers and ionisation, along with corresponding strategies for interpretation of data. The book concludes with a comprehensive 3000 references. This multi-disciplined text covers the fundamentals as well as recent advance in this topic, providing need-to-know information for researchers in many disciplines including pharmaceutical, environmental and biomedical analysis who are utilizing mass spectrometry

Cumulative Book Index

World List of Books in English

Neural Engineering

Springer Science & Business Media Neural Engineering, 2nd Edition, contains reviews and discussions of contemporary and relevant topics by leading investigators in the field. It is intended to serve as a textbook at the graduate and advanced undergraduate level in a bioengineering curriculum. This principles and applications approach to neural engineering is essential reading for all academics, biomedical engineers, neuroscientists, neurophysiologists, and industry professionals wishing to take advantage of the latest and greatest in this emerging field.

High-Field Electrodynamics

CRC Press Tremendous technological developments and rapid progress in theory have opened a new area of modern physics called high-field electrodynamics: the systematic study of the interaction of relativistic electrons or positrons with ultrahigh-intensity, coherent electromagnetic radiation. This advanced undergraduate/graduate-level text provides a detailed introduction to high-field electrodynamics, from its fundamentals to some of its important modern applications. The author describes a broad collection of theoretical techniques, and where possible, approaches derivations by at least two different routes to yield deeper physical insight and a wider range of mathematical and physical techniques. He also discusses some of the outstanding ramifications of electrodynamics in areas ranging from quantum optics, squeezed states, and the Einstein-Podolsky-Rosen paradox to rotating black holes, non-Abelian gauge field theories, and the Bohm-Aharanov effect. High-Field Electrodynamics gives a comprehensive description of the theoretical tools needed to approach this novel discipline. It highlights important modern applications and serves as a starting point for more advanced and specialized research at the frontiers of modern physics.