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An Introduction to the Concepts, Systems, and Applications of Nuclear Processes National Academies Press

The third, revised edition of this popular textbook and reference, which has been translated into Russian and Chinese, expands the comprehensive and balanced coverage of nuclear reactor physics to include recent advances in understanding of this topic. The first part of the book covers basic reactor physics, including, but not limited to nuclear reaction data, neutron diffusion theory, reactor criticality and dynamics, neutron energy distribution, fuel burnup, reactor types and reactor safety. The second part then deals with such physically and mathematically more advanced topics as neutron transport theory, neutron slowing down, resonance absorption, neutron thermalization, perturbation and variational methods, homogenization, nodal and synthesis methods, and space-time neutron dynamics. For ease of reference, the detailed appendices contain nuclear data, useful mathematical formulas, an overview of special functions as well as introductions to matrix algebra and Laplace transforms. With its focus on conveying the in-depth knowledge needed by advanced student and

professional nuclear engineers, this text is ideal for use in numerous courses and for self-study by professionals in basic nuclear reactor physics, advanced nuclear reactor physics, neutron transport theory, nuclear reactor dynamics and stability, nuclear reactor fuel cycle physics and other important topics in the field of nuclear reactor physics.

Technology and Techniques Elsevier

Brought to you by the expert editor team from Principles and Practice of Infectious Diseases, this brand-new handbook provides a digestible summary of the 241 disease-oriented chapters contained within the parent text. Boasting an exceptionally templated design with relevant tables and illustrations, it distills the essential, up-to-date, practical information available in infectious disease. This high-yield manual-style reference will prove useful for a wide variety of practitioners looking for quick, practical, and current infectious disease information. Provides a digestible summary of the 241 disease-oriented chapters contained within Principles and Practice of Infectious Diseases, 8th Edition (ISBN: 978-1-4557-4801-3). Covers hot topics in infectious disease, such as Hepatitis B and C, Influenza, Measles, Papillomavirus, HIV, MERS, and C. difficile. Templated design includes relevant tables and illustrations. Ideal for the non-infectious disease specialist, including primary care physicians, physician assistants, nurse practitioners, students, residents, pharmacists, emergency physicians, and urgent care physicians.

Fifth International Student Edition W.W. Norton & Company

Dr. Khan's classic textbook on radiation oncology physics is now in its thoroughly revised and updated Fourth Edition. It provides the entire radiation therapy team—radiation oncologists, medical physicists, dosimetrists, and radiation therapists—with a thorough understanding of the physics and practical clinical applications of advanced radiation therapy technologies, including 3D-CRT, stereotactic

radiotherapy, HDR, IMRT, IGRT, and proton beam therapy. These technologies are discussed along with the physical concepts underlying treatment planning, treatment delivery, and dosimetry. This Fourth Edition includes brand-new chapters on image-guided radiation therapy (IGRT) and proton beam therapy. Other chapters have been revised to incorporate the most recent developments in the field. This edition also features more than 100 full-color illustrations throughout. A companion Website will offer the fully searchable text and an image bank.

Nuclear Medicine and PET/CT - E-Book Kendall Hunt

Discover the secret missions behind America's greatest conflicts. Danny Manion has been fighting his entire life. Sometimes with his fists. Sometimes with his words. But when his actions finally land him in real trouble, he can't fight the judge who offers him a choice: jail... or the army. Turns out there's a perfect place for him in the US military: the Studies and Observation Group (SOG), an elite volunteer-only task force comprised of US Air Force Commandos, Army Green Berets, Navy SEALs, and even a CIA agent or two. With the SOG's focus on covert action and psychological warfare, Danny is guaranteed an unusual tour of duty, and a hugely dangerous one. Fortunately, the very same qualities that got him in trouble at home make him a natural-born commando in a secret war. Even if almost nobody knows he's there. National Book Award finalist Chris Lynch begins a new, explosive fiction series based on the real-life, top-secret history of US black ops.

Nuclear Energy Wiley

During a tour with The Historical Unit, U.S. Army Medical Dept., from 1974-1977, Peter Dorland, then a captain and a former Dust Off pilot in Vietnam, completed the basic research for this book and drafted a lengthy manuscript. In 1971, James Nanney, an editor at

the U.S. Army Center of Military History conducted further research on Dust Off, reorganized and redrafted portions of the original manuscript, and added Chapter 4 and the Epilogue. Chapters include: the early years of medical evacuation, and the Korean War; birth of a tradition; the system matures; the pilot at work; from Tet 1968 to stand-down; statistics; doctrine and lessons learned; a historical perspective; and bibliography.

Rip Van Winkle and The Legend of Sleepy Hollow Elsevier

Electron radiography is considered both theoretically and empirically as a method of analysis essentially of (1) thin biological sections, and (2) polished metallurgical surfaces. Comparative illustrations are shown of this and complementary techniques using soft X rays and visible light; the scope and limitations of each are cited.

Introduction to Medical Physics Lippincott Williams & Wilkins

This is the 20th Volume in the series Memorial Tributes compiled by the National Academy of Engineering as a personal remembrance of the lives and outstanding achievements of its members and foreign associates. These volumes are intended to stand as an enduring record of the many contributions of engineers and engineering to the benefit of humankind. In most cases, the authors of the tributes are contemporaries or colleagues who had personal knowledge of the interests and the engineering accomplishments of the deceased. Through its members and foreign associates, the Academy carries out the responsibilities for which it was established in 1964. Under the charter of the National Academy of Sciences, the National Academy of Engineering was formed as a parallel organization of outstanding engineers. Members are elected on the basis of significant contributions to engineering theory and practice and to the literature of engineering or on the basis of demonstrated unusual accomplishments in the pioneering of new and developing fields of technology. The National Academies share a responsibility to advise the federal government on matters of science and technology. The expertise and credibility that the National Academy of Engineering brings to that task stem directly from the abilities, interests, and achievements of our members and foreign associates, our colleagues and friends, whose special gifts we remember in this book.

Black Elk Speaks Springer Nature

The famous story of the Lakota healer and visionary,

Nicholas Black Elk.

Army Aeromedical Evacuation in Vietnam Academic Press

In the last 20 years, the need for a financial expert to act as a witness and consultant to litigating attorneys has grown even more than litigation itself. Twenty years ago, few certified public accountants or economists offered litigation-related services; now, a large number devote much of their practice to this area. To be litigation service practitioners and accountants need to learn or enhance their litigation skills, including the fine points of their roles in trial preparation and testimony presentation, testimony presentation, deposition, direct examination, cross examination, understanding Sarbanes-Oxley rulings, and fraud investigations.

Principles of Measurement and Instrumentation CRC Press

Widely used by practitioners, researchers, and students--and now thoroughly revised with 70% new material--this is the most authoritative, comprehensive book on malingering and other response styles. Leading experts translate state-of-the-art research into clear, usable strategies for detecting intentional distortions in a wide range of psychological and psychiatric evaluation contexts, including forensic settings. The book examines dissimulation across multiple domains: mental disorders, cognitive impairments, and medical complaints. It describes and critically evaluates evidence-based applications of multiscale inventories, other psychological measures, and specialized methods. Applications are discussed for specific populations, such as sex offenders, children and adolescents, and law enforcement personnel. New to This Edition *Many new authors and topics.

*Thoroughly updated with current data, research methods, and assessment strategies. *Chapters on neuropsychological models, culturally competent assessments, psychopathy, and conversion disorder.

*Chapters on psychological testing in child custody cases and in personnel selection/hiring.

Pathophysiology: a Practical Approach DIANE Publishing

The second edition of a bestseller, this book presents the latest innovative research methods that help break new ground by applying patterns, reuse, and design science to research. The book relies on familiar patterns to provide the solid fundamentals of various research philosophies and techniques

as touchstones that demonstrate how to innovate research methods. Filled with practical examples of applying patterns to IT research with an emphasis on reusing research activities to save time and money, this book describes design science research in relation to other information systems research paradigms such as positivist and interpretivist research.

Reference Manual on Scientific Evidence Elsevier

This book offers readers an overview of some of the most recent advances in the field of advanced materials used for gamma and X-ray imaging. Coverage includes both technology and applications, with an in-depth review of the research topics from leading specialists in the field. Emphasis is on high-Z materials like CdTe, CZT and GaAs, as well as perovskite crystals, since they offer the best implementation possibilities for direct conversion X-ray detectors. Authors discuss material challenges, detector operation physics and technology and readout integrated circuits required to detect signals processes by high-Z sensors.

Chemistry Equations & Answers Springer Nature

A dynamic, all-inclusive overview of the field of health physics If it's an important topic in the field of health physics, you'll find it in this trusted text . . . in sections on physical principles, atomic and nuclear structure, radioactivity, biological effects of radiation, and instrumentation. This one-of-a-kind guide spans the entire scope of the field and offers a problem-solving approach that will serve you throughout your career. Features: A thorough overview of need-to-know topics, from a review of physical principles to a useful look at the interaction of radiation with matter Chapter-ending practice problems to solidify your grasp of health physics topics and their real-world application Essential background material on quantitative risk assessment for health-threatening radiation dangers Authoritative radiation safety and environmental health coverage that supports the International Commission on Radiological Protection's standards for specific populations High-yield appendices to expand your comprehension of chapter material: Values of Some Useful Constants, Table of the Elements, The Reference Person, Specific Absorbed Fraction of Photon Energy, and Total Mass Attenuation Coefficients NEW! Essential coverage of non-ionizing radiation-laser and microwaves, computer use in dose calculation, and dose limit recommendations

The Identification of Behavioral, Geographic and Temporal Patterns of Preparatory Conduct Scholastic Inc.

This is the resource that engineers turn to in the study of radiation detection. The fourth edition takes into account the technical developments that continue to enhance the

instruments and techniques available for the detection and spectroscopy of ionizing radiation. New coverage is presented on ROC curves, micropattern gas detectors, new sensors for scintillation light, and the excess noise factor. Revised discussions are also included on TLDs and cryogenic spectrometers, radiation backgrounds, and the VME standard. Engineers will gain a strong understanding of the field with this updated book.

Student Solutions Manual to accompany Radiation Detection and Measurement, 4e John Wiley & Sons

This is the resource that engineers turn to in the study of radiation detection. The fourth edition takes into account the technical developments that continue to enhance the instruments and techniques available for the detection and spectroscopy of ionizing radiation. New coverage is presented on ROC curves, micropattern gas detectors, new sensors for scintillation light, and the excess noise factor. Revised discussions are also included on TLDs and cryogenic spectrometers, radiation backgrounds, and the VME standard. Engineers will gain a strong understanding of the field with this updated book.

The Book of the Film : the Documented Screenplay
Springer

Mathematical Physics for Nuclear Experiments presents an accessible introduction to the mathematical derivations of key equations used in describing and analysing results of typical nuclear physics experiments. Instead of merely showing results and citing texts, crucial equations in nuclear physics such as the Bohr's classical formula, Bethe's quantum mechanical formula for energy loss, Poisson, Gaussian and Maxwellian distributions for radioactive decay, and the Fermi function for beta spectrum analysis, among many more, are presented with the mathematical bases of their derivation and with their physical utility. This approach provides readers with a greater connection between the theoretical and experimental sides of nuclear physics. The book also presents connections between well-established results and ongoing research. It also contains figures and tables showing results from the author's experiments and those of his students to demonstrate experimental outcomes. This is a valuable guide for advanced undergraduates and early graduates studying nuclear instruments and

methods, medical and health physics courses as well as experimental particle physics courses. Key features
Contains over 500 equations connecting theory with experiments. Presents over 80 examples showing physical intuition and illustrating concepts. Includes 80 exercises, with solutions, showing applications in nuclear and medical physics.

Introduction to the Physics of Radiation and Detection Devices
Elsevier Health Sciences

This 6-page study guide contains basic chemistry analysis and concepts designed specifically to aid science students.

Dust Off DIANE Publishing

This text presents the subject of instrumentation and its use within measurement systems as an integrated and coherent subject. This edition has been thoroughly revised and expanded with new material and five new chapters. Features of this edition are: an integrated treatment of systematic and random errors, statistical data analysis and calibration procedures; inclusion of important recent developments, such as the use of fibre optics and instrumentation networks; an overview of measuring instruments and transducers; and a number of worked examples.

Fundamentals of Nuclear Reactor Physics Pearson

This is a print on demand edition of a hard to find publication. Explores whether sufficient data exists to examine the temporal and spatial relationships that existed in terrorist group planning, and if so, could patterns of preparatory conduct be identified? About one-half of the terrorists resided, planned, and prepared for terrorism relatively close to their eventual target. The terrorist groups existed for 1,205 days from the first planning meeting to the date of the actual/planned terrorist incident. The planning process for specific acts began 2-3 months prior to the terrorist incident. This study examined selected terrorist groups/incidents in the U.S. from 1980-2002. It provides for the potential to identify patterns of conduct that might lead to intervention prior to the commission of the actual terrorist incidents. Illustrations.

Mandell, Douglas and Bennett's Infectious Disease

Essentials E-Book Quickstudy: Academic

Synchrotron radiation has been a revolutionary and invaluable research tool for a wide range of scientists, including chemists, biologists, physicists, materials scientists, geophysicists. It has also found multidisciplinary applications with problems ranging from archeology

through cultural heritage to paleontology. The subject of this book is x-ray spectroscopy using synchrotron radiation, and the target audience is both current and potential users of synchrotron facilities. The first half of the book introduces readers to the fundamentals of storage ring operations, the qualities of the synchrotron radiation produced, the x-ray optics required to transport this radiation, and the detectors used for measurements. The second half of the book describes the important spectroscopic techniques that use synchrotron x-rays, including chapters on x-ray absorption, x-ray fluorescence, resonant and non-resonant inelastic x-ray scattering, nuclear spectroscopies, and x-ray photoemission. A final chapter surveys the exciting developments of free electron laser sources, which promise a second revolution in x-ray science. Thanks to the detailed descriptions in the book, prospective users will be able to quickly begin working with these techniques. Experienced users will find useful summaries, key equations, and exhaustive references to key papers in the field, as well as outlines of the historical developments in the field. Along with plentiful illustrations, this work includes access to supplemental Mathematica notebooks, which can be used for some of the more complex calculations and as a teaching aid. This book should appeal to graduate students, postdoctoral researchers, and senior scientists alike.