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written by established experts in the field this book features in depth discussions of proven scientific principles current trends and applications of nuclear chemistry to the sciences and engineering provides up to date coverage of the latest research and examines the theoretical and practical aspects of nuclear and radiochemistry presents the basic physical principles of nuclear and radiochemistry in a succinct fashion requiring no basic knowledge of quantum mechanics adds discussion of math tools and simulations to demonstrate various phenomena new chapters on nuclear medicine nuclear forensics and particle physics and updates to all other chapters includes additional in chapter sample problems with solutions to help students r edition an authoritative comprehensive but succinct state of the art textbook the chemical educator and an excellent resource for libraries and laboratories supporting programs requiring familiarity with nuclear processes choice

this textbook describes the study of radiation covering the basic concepts and their advanced applications and highlights the handling of radioisotopes and radiation measurements using various instruments the book also focuses on the effects and up to date applications of radiation on biological systems and their use in diagnosing and treating various diseases chapters provide an easy understanding of the subject matter with the help of self explanatory well illustrated figures and easy to grasp language tools and techniques in radiation biophysics is designed for undergraduate and post graduate studying radiation biophysics as one of the major courses in medical physics nuclear medicine biophysics and other applied sciences the multi disciplinary approach of this book facilitates learning and a deep understanding of the concepts and helps the readers develop an interest in the subject so that they can pursue their careers efficiently in this field researchers and lecturers will value this book to enhance their knowledge and clarify queries

a comprehensive and unified introduction to the science of energy sources uses and systems for students scientists engineers and professionals

mechanics is the science of studying energy and forces and their effects on matter it involves mechanisms kinematics cross sections and transport radiation mechanism describes how various types of radiation interact with different targets atoms and nuclei the book addresses the above four aspects of radiation mechanics integrating these aspects of radiation behavior in a single treatise under the framework of radiation mechanics covers all aspects of radiation mechanics helps non nuclear graduates readily familiarize themselves with radiation integrates and coordinates mechanisms kinematics cross sections and transport in one volume end of each chapter problems to further assist students in understanding the underlying concepts use of computations and internet resources included in the problems

electricity and magnetism fundamentals offers a comprehensive journey into the realm of electromagnetism exploring both theoretical principles and practical applications this guide is tailored for students researchers and enthusiasts seeking a deeper understanding of electromagnetism we cover fundamental principles including maxwell s equations electromagnetic waves and electromagnetic induction the book delves into practical applications in everyday life such as wireless communication technologies medical imaging devices power generation and transportation systems real world examples and case studies illustrate how electromagnetism shapes modern technology and society the book integrates theoretical concepts with experimental techniques encouraging readers to apply theoretical knowledge in practical settings hands on experiments and demonstrations foster deeper insights into electromagnetism

phenomena with contributions from experts across disciplines we offer insights into electromagnetism's role in physics engineering biology and beyond rich illustrations diagrams and photographs enhance the learning experience making complex concepts more accessible electricity and magnetism fundamentals is an essential resource for anyone seeking to understand electromagnetism's impact on diverse scientific and technological fields

this is a textbook for undergraduate students pursuing an advanced degree in physics written according to the ugc model curriculum it covers courses p4 electricity and magnetism and p10 electrodynamics electromagnetic waves and relativity the book is divided into 6 parts the first 5 parts deal with the physics and the last part is devoted to indian contributions in physics which is also a part of the ugc model curriculum in all chapters derivations are worked out in detail to help the average student tutorials are included in almost all the chapters as prescribed by the curriculum a concurrent course in vector calculus is required

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