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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 reviews of 1st 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

includes part 1 number 2 books and pamphlets including serials and contributions to periodicals july december

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

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

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