

Chapter 10 Nuclear Chemistry

7. How is the product isotope different from the reactant isotope in alpha decay? The product isotope has two fewer protons and two fewer neutrons than the reactant isotope.
8. Circle the letters that identify each event that takes place during beta decay.
- ☐ A proton decomposes into a neutron and an electron.
 - ☒ A neutron decomposes into a proton and an electron.
 - ☒ An electron is emitted from the nucleus.
 - ☐ A neutron is emitted from the nucleus.
9. Why are beta particles more penetrating than alpha particles? Beta particles have a smaller mass and a faster speed.
10. Is the following sentence true or false? All nuclear radiation consists of charged particles. false
11. What is a gamma ray? A gamma ray is a penetrating ray of energy emitted by an unstable nucleus.
12. How fast do gamma rays travel through space? Gamma rays travel through space at the speed of light.
13. Complete the following table about nuclear radiation.

Characteristics of Nuclear Radiation			
Radiation Type	Charge	Mass (amu)	Usually Stopped By
Alpha particle	- 1	4	Paper or clothing
Beta particle	1 -	1 1836	Aluminum sheet
Gamma ray	0	0	Several meters of concrete

Effects of Nuclear Radiation (pages 296–297)

14. How does nuclear radiation affect atoms? Nuclear radiation can ionize atoms.
15. Is the following sentence true or false? One potential danger of radon gas is that prolonged exposure to it can lead to lung cancer. true

Detecting Nuclear Radiation (page 297)

16. Name two devices that are used to detect nuclear radiation.
- Geiger counters
 - Film badges

Section 10 3 Radioactivity Answers

**Mary Alice Statkiewicz Sherer, Kelli
Haynes, Paula J. Visconti, E. Russell
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Hendee's Radiation Therapy Physics Todd Pawlicki,Daniel J. Scanderbeg,George Starkschall,2016-04-18

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Conducting Astronomy Education Research Janelle M. Bailey, Timothy F. Slater, Stephanie J. Slater, 2011-01-28 Tim Slater and Roger Freedman have worked to improve astronomy and overall science education for many years. Now they've partnered to create a new textbook, a re-envisioning of the course focused on conceptual understanding and inquiry based learning. Investigating Astronomy: A Conceptual Approach to the Universe is a brief 15 chapter text that employs a variety of activities and experiences to encourage students to think like a scientist.

Adult CNS Radiation Oncology Eric L. Chang, Paul D. Brown, Simon S. Lo, Arjun Sahgal, John H. Suh, 2018-07-27 This book elucidates the radiation therapy protocols and procedures for the management of adult patients presenting with primary benign and malignant central nervous system tumors. With the development of new treatment strategies and rapid advancement of radiation technology, it is crucial for radiation oncologists to maintain and refine their knowledge and skills. Dedicated exclusively to adult CNS radiation oncology, this textbook explores CNS tumors ranging from the common to the esoteric, as well as secondary cancers of metastatic origin. The first half of the book is organized anatomically: tumors of the brain, spinal cord, leptomeninges, optic pathway, ocular, choroid, and skull base. The second half covers primary CNS lymphoma, rare CNS tumors, metastatic brain disease, vascular conditions of the CNS, radiation associated complications, and radiation modalities. Each chapter provides guidance on treatment field design, target delineation, and normal critical structure tolerance constraints in the context of the disease being treated. Learning objectives, case studies, and Maintenance of Certification Self Assessment Continuing Medical

Education style questions and answers are incorporated throughout the book This is an ideal guide for radiation oncologists residents and fellows but medical students may also find value in the text *Absolute Therapeutic Medical Physics Review* Malcolm Heard,Raghavendiran Boopathy,Charles R. Thomas, Jr.,2022-11-23 This book is a comprehensive study guide for the therapeutic medical physicist pursuing initial board certification and those participating in continuing education Medical physics is an evolving field as a result of rapidly developing technology and the focus on evidence based care in radiation oncology Recently the certification body has mandated an online question and answer system to allow practicing physicist to receive continuing education credits The questions are designed to test the walking around knowledge of the clinical physicist Many physicists specialize in specific treatment modalities thus limiting their exposure to other areas of clinical physics This handbook allows these physicists to stay up to date and satisfy the requirements of the certification body The text is divided into 2 main sections Questions Detailed Answers Question chapters are divided by the ABR content guide and are composed of 15 35 questions Questions are primarily multiple choice in nature with 4 5 possible answers but there are also matching questions Questions review the scope of medical physics spanning from medical physics theories to day to day applications in clinic The questions and detailed answers will be set in such a way to address most relevant and commonly tested topics of dosimetry treatment machine treatment planning protection radiobiology radiation safety and professionalism and ethics The questions will most closely fit to what is done in clinical practice Detailed answers not only explain the correct answer but also discuss the erroneous remaining answers with the appropriate citation of the most recent protocols guidelines publications and task group recommendations This is an ideal study guide for therapeutic medical physicists in training and in practice who need to pass a written board examination or prepare themselves for their continuing education requirements *Radiation Workers Compensation Act* United States. Congress. House. Committee on Education and Labor,1962 **Radiation Workers Compensation Act. 87-2. Jan. 29, 30, 31, 1962** United States. Congress. House. Education and Labor,1962 **Workbook for Radiation Protection in Medical Radiography - E-Book** Kelli Haynes,Mary Alice Statkiewicz Sherer,Paula J. Visconti,E. Russell Ritenour,2013-12-27 With this workbook you ll enhance your understanding of the material in Radiation Protection in Medical Radiography 6th Edition Author Mary Alice Statkiewicz Sherer uses the same clear accessible approach as in the textbook taking difficult topics and making them easier for you to learn and apply Matching the chapters in the text this workbook ensures that you understand radiation physics and radiation protection and are ready to apply your knowledge in the practice setting Each chapter covers all material included in the text providing a comprehensive review Each chapter highlights important information with an introductory paragraph and a bulleted summary A variety of question formats including matching short discussion items true false multiple choice and fill in the blank questions Calculation exercises offer practice in using formulas and equations presented in the text All answers available in the back of the book so you can easily check your work **Radiation Safety in Nuclear Medicine**

Max H. Lombardi, 2006-10-20 Recent advances in the field of nuclear medicine NM are expanding the role and responsibilities of the nuclear medicine technologist NMT to include more complex and detailed tasks New technologies are making the diagnosis management and treatment of illnesses more sensitive more specific more accurate and ultimately safer for both the patient and the physician

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Physics in Radiation Oncology Self-Assessment Guide Ping Xia, Andrew Godley, 2015-09-08 This guide companion to the Radiation Oncology Self Assessment Guide is a comprehensive physics review for anyone in the field of radiation oncology looking to enhance their knowledge of medical physics It covers in depth the principles of radiation physics as applied to radiation therapy along with their technical and clinical applications To foster retention of key concepts and data the resource utilizes a user friendly flash card question and answer format with over 800 questions The questions are supported by detailed answers and rationales along with reference citations for source information The Guide is comprised of 14 chapters that lead the reader through the radiation oncology physics field from basic physics to current practice and latest innovations Aspects of basic physics covered include fundamentals photon and particle interactions and dose measurement A section on current practice covers treatment planning safety regulations quality assurance and SBRT SRS TBI IMRT and IGRT techniques A chapter unique to this volume is dedicated to those topics in diagnostic imaging most relevant to radiology including MRI ultrasound fluoroscopy mammography PET SPECT and CT New technologies such as VMAT novel IGRT devices proton therapy and MRI guided therapy are also incorporated Focused and authoritative this must have review combines the expertise of clinical radiation oncology and radiation physics faculty from the Cleveland Clinic Taussig Cancer Institute Key Features Includes more than 800 questions with detailed answers and rationales A one stop guide for those studying the physics of radiation oncology including those wishing to reinforce their current knowledge of medical physics Delivered in a flash card format to facilitate recall of key concepts and data Presents a unique chapter on diagnostic imaging topics most relevant to radiation oncology Content provided by a vast array of contributors including physicists radiation oncology residents dosimetrists and physicians About the Editors Andrew Godley PhD is Staff Physicist Department of Radiation Oncology Taussig Cancer Institute Cleveland Clinic Cleveland OH Ping Xia PhD is Head of Medical Physics and Professor of Molecular Medicine Taussig Cancer Institute Cleveland Clinic Cleveland OH *Health Effects of Low-level*

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