

NUCLEAR CHEMISTRY

Practice Problems

In your notebook, solve the following problems.

SECTION 25.1 NUCLEAR RADIATION

- What happens to the mass number and atomic number of an atom that undergoes beta decay?
- A nuclide of an element undergoes alpha particle decay. How do the atomic number and mass number of the particle change?
- Give the composition of the nucleus of the following isotopes.
 - ${}^{234}\text{Th}$
 - ${}^{232}\text{Th}$
 - ${}^{210}\text{At}$
- Complete each of the following equations.
 - ${}^{234}\text{Th} \rightarrow \text{?} + \text{?}$
 - ${}^{210}\text{At} \rightarrow \text{?} + \text{?}$
 - ${}^{234}\text{Th} \rightarrow \text{?} + \text{?}$

SECTION 25.2 NUCLEAR TRANSFORMATIONS

- Write a nuclear equation for the following radioactive processes.
 - alpha decay of francium-223
 - electron capture by beryllium-7
 - beta emission by argon-37
 - positron emission by boron-12
- Complete the equations for these transmutation reactions.
 - ${}^{24}\text{Mg} + \text{?} \rightarrow \text{?} + \text{?}$
 - ${}^{238}\text{U} + \text{?} \rightarrow \text{?} + \text{?} + \text{?}$
 - ${}^{24}\text{Mg} + \text{?} \rightarrow \text{?} + \text{?} + \text{?}$
 - ${}^{238}\text{U} \rightarrow \text{?} + \text{?} + \text{?} + \text{?} + \text{?}$
 - $\text{?} + \text{?} \rightarrow \text{?} + \text{?} + \text{?} + \text{?} + \text{?}$
- Polonium-214 has a relatively short half-life of 264 s. How many seconds would it take for 6.0 g of this isotope to decay to 0.25 g?
- How many days does it take for 16 g of gadolinium-153 to decay to 1.0 g? The half-life of gadolinium-153 is 17 days.
- By approximately what factor would the mass of a sample of copper-66 decrease in 10 minutes? The half-life of copper-66 is 5.49 min.
- In 5.49 seconds, 1.00 g of argon-39 decay to leave only 0.10 g. What is the half-life of argon-39?

Key For Radioactivity Section Chapter 25 Nuclear Changes

Robert Odette, Steven Zinkle



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Glencoe Chemistry Solving Problems A Chemistry Handbook Matter and Change *Nuclear Science Abstracts*, 1975 **Diagnostic Pathology: Cytopathology - E-Book** Dina R. Mody, Michael J. Thrall, Savitri Krishnamurthy, 2022-11-30
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Training Manual on International Environmental Law, 2006 It is widely recognized that most environmental problems challenges and solutions are transboundary regional or global in scope The environment is an area where states and stakeholders are cooperating extensively and progressively This manual seeks to provide a comprehensive overview of the current body of environmental law Publisher s description

Radioactive Waste Management, 1981 **Prentice Hall Science Explorer** Michael J. Padilla, 2002 **Radiation Protection In Diagnostic X-Ray Imaging**, **Fundamentals of Physics, Chapters 38-44** David Halliday, Robert Resnick, Jearl Walker, 2010-03-08 **Federal Register**, 2014 *Nursing Key Topics Review: Pathophysiology E-Book* Elsevier Inc, 2018-11-14 NEW Emphasis on critical practical and relevant information helps you study and learn pharmacology in the most time efficient way possible NEW NCLEX exam style review questions include answers and rationales allowing you to assess your understanding and retention of the material NEW Audio summaries on a mobile web app make it easy to review anytime anywhere NEW Content and format developed in response to student input ensures the presentation is as relevant as possible and conducive to workflow NEW Bulleted lists let you see key content at a glance allowing for quick comprehension NEW Summary tables and illustrations make learning and review easier

Environmental Health Howard Frumkin, 2016-02-29 The bestselling environmental health text with all new coverage of key topics Environmental Health From Global to Local is a comprehensive introduction to the subject and a contemporary authoritative text for students of public health environmental health preventive medicine community health and environmental studies Edited by the former director of the CDC s National Center for Environmental Health and current dean of the School of Public Health at the University of Washington this book provides a multi faceted view of the topic and how it affects different regions populations and professions In addition to traditional environmental health topics air water

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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 [Goldman-Cecil Medicine E-Book](#) Lee Goldman, Andrew I. Schafer, 2015-04-21 Since 1927 Goldman Cecil Medicine has been the world s most influential internal medicine resource In the ground breaking 25th edition your original purchase ensures you will be up to date without the need for a subscription Through the new more powerful Expert Consult eBook platform this living text provides continuous updates that will integrate the latest research guidelines and treatments into each chapter ensuring that the content is as current as the day this edition was first published Goldman Cecil Medicine offers definitive unbiased guidance on the evaluation and management of every medical condition presented by a veritable Who s Who of modern medicine A practical straightforward style templated organization evidence based references and robust interactive content combine to make this dynamic resource quite simply the fastest and best place to find all of the authoritative state of the art

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Publications of the National Bureau of Standards, 1968-1969 United States. National Bureau of Standards, Betty L. Oberholtzer, 1970 [Catalog of National Bureau of Standards Publications, 1966-1976: pt. 1 Citations and abstracts. v. 2. Key word index \(A through L\)](#) United States. National Bureau of Standards. Technical Information and Publications Division, 1978

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