

25

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.
 - $^{224}_{86}\text{Rn}$
 - $^{232}_{90}\text{Th}$
 - $^{209}_{83}\text{Bi}$
- Complete each of the following equations.
 - $^{238}_{92}\text{U} \rightarrow \text{?} + \text{?}$
 - $^{234}_{90}\text{Th} \rightarrow \text{?} + \text{?}$
 - $^{234}_{90}\text{Th} \rightarrow \text{?} + \text{?}$

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.
 - $^{24}_{12}\text{Mg} + \text{?} \rightarrow \text{?} + \text{?}$
 - $^{238}_{92}\text{U} + \text{?} \rightarrow \text{?} + \text{?} + \text{?}$
 - $^{240}_{94}\text{Pu} \rightarrow \text{?} + \text{?} + \text{?}$
 - $^{238}_{92}\text{U} \rightarrow \text{?} + \text{?} + \text{?} + \text{?}$
 - $\text{?} + \text{?} \rightarrow \text{?} + \text{?} + \text{?} + \text{?}$
- Po-214 has a relatively short half-life of 164 s. How many micrograms would it take for 0.5 g of this isotope to decay to 0.25 g?
- How many days does it take for 16 g of polonium-210 to decay to 1.0 g? The half-life of polonium-210 is 137 days.
- By approximately what factor would the mass of a sample of copper-66 decrease in 50 minutes? The half-life of copper-66 is 5.48 min.
- In 5.48 minutes, 1.00 g of argon-39 decays to leave only 0.12 g. What is the half-life of argon-39?

Key For Radioactivity Section 1 Chapter 25 Nuclear Changes

U.S. Nuclear Regulatory Commission



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Holt Physics Raymond A. Serway, 2002 **Radioactive Waste Management**, 1981 Chemistry: Matter & Change, Solving Problems - A Chemistry Handbook McGraw Hill, 2001-08 Glencoe Chemistry Solving Problems A Chemistry Handbook Matter and Change **Rules and Regulations** U.S. Nuclear Regulatory Commission, 1987 Nuclear Science Abstracts, 1976 **Diagnostic Pathology: Cytopathology - E-Book** Dina R. Mody, Michael J. Thrall, Savitri Krishnamurthy, 2022-11-30 This expert volume in the Diagnostic Pathology series is an excellent point of care resource for practitioners and trainees at all levels of experience and training Covering all aspects of cytology including gynecologic nongynecologic exfoliative fine needle aspiration and imaging it incorporates the most recent scientific and technical knowledge in the field to provide a comprehensive overview of all key issues relevant to today's practice Richly illustrated and easy to use the third edition of Diagnostic Pathology Cytopathology is a visually stunning one stop resource for every practicing pathologist resident student or fellow as an ideal day to day reference or as a reliable training resource Covers all areas of cytopathology including clinical radiologic and immunohistochemical as well as cytopathologic features and molecular correlates where applicable Contains new chapters on ancillary molecular tests specific to thyroid prognostic therapy related immunomarkers in cell blocks and small biopsies Provides new immunohistochemical and molecular coverage including new immunostains and genomic targets Incorporates new reporting terminology such as serous fluid and effusions and updates to existing reporting terminologies Reflects the expanded use of fine needle aspiration for small biopsies FNA B with many more images added and updated throughout Keeps you up to date with current and emerging reporting systems on pancreaticobiliary salivary breast and soft tissue cytology Features more than 3 000 print and online images including carefully annotated histology and gross pathology photos full color illustrations clinical photographs and radiologic images to help practicing and in training pathologists reach a confident diagnosis Includes new videos on such topics as the cytopreparatory process cell transfer cell block and smears collodion bag cell block and more Employs consistently templated chapters bulleted content key facts a variety of tables annotated images pertinent references and an extensive index for quick expert cytopathology reference at the point of care Structural Alloys for Nuclear Energy Applications Robert Odette, Steven Zinkle, 2019-08-15 High performance alloys that can withstand operation in hazardous nuclear environments are critical to presentday in service reactor support and maintenance and are foundational for reactor concepts of the future With commercial nuclear energy vendors and operators facing the retirement of staff during the coming decades much of the scholarly knowledge of nuclear materials pursuant to appropriate impactful and safe usage is at risk Led by the multi award winning editorial team of G Robert Odette UCSB and Steven J Zinkle UTK ORNL and with contributions from leaders of each alloy discipline Structural Alloys for Nuclear Energy Applications aids the next generation of researchers and industry staff developing and maintaining steels nickel base alloys zirconium alloys and other structural

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Federal Register ,2014 **Radioactive Waste Processing and Disposal** U.S. Nuclear Regulatory Commission,1980

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