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NGSS Regents Chemistry

NOTE PACKET Unit 12: Nuclear Chemistry

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Nuclear Chemistry



Unit Vocabulary:

- Alpha particle
- Artificial transmutation
- Beta particle
- Fission
- Fusion
- Gamma radiation
- Half-life
- Radioactive tracer
- Radioisotope
- Transmutation

Unit Objectives:

Upon completion of this unit you should be able to do the following:

- Predict the identity of an isotope based on the ratio of neutrons and protons in its nucleus.
- Understand that while most nuclei are stable some are unstable and spontaneously decay emitting radiation.
- Calculate the initial amount of the fraction remaining, or the half-life of a radioactive isotope, using the half-life equation.
- Understand the concept of half-life.
- Differentiate between the following emissions based on mass, charge, ionizing power, and penetrating power:
 - ✓ Alpha
 - ✓ Beta
 - ✓ Positron
 - ✓ Gamma
- Determine the type of decay (alpha, beta, positron, gamma) and write the nuclear equations.
- Compare and contrast fission and fusion reactions.
- Distinguish between natural and artificial transformations.
- Compare nuclear equations and predict missing particles from nuclear equations.
- Understand the change in energy in a nuclear reaction.
- Be aware of the risks associated with radioactivity.
- Recognize the beneficial uses and real-world application of radioactive isotopes.
 - ✓ Radioactive dating
 - ✓ Tracing chemical and biological processes
 - ✓ Industrial measurement
 - ✓ Nuclear power
 - ✓ Detection and treatment of diseases

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Nuclear Chemistry Packet

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the University of California, Berkeley text.

Nuclear Chemistry Packet:

Journal of Inorganic and Nuclear Chemistry, 1969 **Chemistry** John A. Olmsted, Gregory M. Williams, Robert Charles Burk, 2016-01-14 Olmsted Burk is an introductory general chemistry text designed specifically with Canadian professors and students in mind A reorganized Table of Contents and inclusion of SI units IUPAC standards and Canadian content designed to engage and motivate readers distinguish this text from many of the current text offerings It more accurately reflects the curriculum of most Canadian institutions Instructors will find the text sufficiently rigorous while it engages and retains student interest through its accessible language and clear problem solving program without an excess of material that makes most text appear daunting and redundant Handbook of Nuclear Chemistry Attila Vértes, Sándor Nagy, Zoltán Klencsár, Rezso György Lovas, Frank Rösch, 2010-12-10 This revised and extended 6 volume handbook set is the most comprehensive and voluminous reference work of its kind in the field of nuclear chemistry The Handbook set covers all of the chemical aspects of nuclear science starting from the physical basics and including such diverse areas as the chemistry of transactinides and exotic atoms as well as radioactive waste management and radiopharmaceutical chemistry relevant to nuclear medicine The nuclear methods of the investigation of chemical structure also receive ample space and attention The international team of authors consists of scores of world renowned experts nuclear chemists radiopharmaceutical chemists and physicists from Europe USA and Asia The Handbook set is an invaluable reference for nuclear scientists biologists chemists physicists physicians practicing nuclear medicine graduate students and teachers virtually all who are involved in the chemical and radiopharmaceutical aspects of nuclear science The Handbook set also provides further reading via the rich selection of references **NBS Special Publication**, 1968 U.S. Government Research Reports, 1962

Radiochemistry and Nuclear Chemistry Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, 2002 Origin of Nuclear Science Nuclei Isotopes and Isotope Separation Nuclear Mass and Stability Unstable Nuclei and Radioactive Decay Radionuclides in Nature Absorption of Nuclear Radiation Radiation Effects on Matter Detection and Measurement Techniques Uses of Radioactive Tracers Cosmic Radiation and Elementary Particles Nuclear Structure Energetics of Nuclear Reactions Particle Accelerators Mechanics and Models of Nuclear Reactions Production of Radionuclides The Transuranium Elements Thermonuclear Reactions the Beginning and the Future Radiation Biology and Radiation Protection Principles of Nuclear Power Nuclear Power Reactors Nuclear Fuel Cycle Behavior of Radionuclides in the Environment Appendices Solvent Extraction Separations Answers to Exercises Isotope Chart Periodic Table of the Elements Quantities and Units Fundamental Constants Energy Conversion Factors Element and Nuclide Index Subject Index *An Introduction To Nuclear Chemistry* M. Satake, 2010 Contents The Development of Nuclear Chemistry Fundamental Particles and Nuclear Structure Radioactivity and Nuclear Reactions Properties of Nuclear Radiations The Detection and Measurement of Nuclear Radiation Nuclear Instrumentation Radiation Chemistry Isotope Measurement and Separation Methods Charged Particle Accelerators Neutron

Sources Production and the Actinides Uses of Isotopes Experimental Nuclear Chemistry **Molecules in Physics, Chemistry and Biology** J. Maruani, 1988-10-31 The book merits a place in any Science Library and I recommend it to anyone who shares the obvious fascination of the writers with molecules and accepts that molecular properties are often best described with the aid of mathematical expressions M Godfrey Journal of Electroanalytical Chemistry 269 1989 provide a panoramic view of the status and potential of molecular sciences at the end of the nineteen eighties This four volume set represents a great value for any scientific library or private collections creating a broad based and rich mini series on molecular sciences Structural Chemistry 1 5 **Essentials of Nuclear Chemistry** Hari Jeevan Arnikar, 1995 The Revised Edition Retains The Essential Theories Of Nuclear Structure And Stability Radioactivity And The Principles Of Fission Fusion And Breeder Reactors Of The Earlier Editions The Preparation Of The More Commonly Used Radioisotopes And Their Uses As Tracers In Research Medicine Agriculture And Industry Are Described The Book Also Covers The Elements Of Radiation And Radiochemistry Illustrated With Additional Examples The Section On Mossbauer Effect Is Retained The Chapter On The Detection And Measurement Of Radioactivity Is Revised To Include Thermo Luminescence And Cerenkov Detectors New Additions In The Present Edition Include A Whole Chapter On The Separation And Uses Of Stable And Radioactive Isotopes Needed In Bulk Amounts In The Atomic Age How An Extension Of Basic Principles Of Nuclear Magnetic Resonance Nmr Has Led To The Sophisticated Magnetic Resonance Imaging Mri The Latest Diagnostic Tool In Medicine Is Discussed Lucidly Another Chapter Is Added Entitled A Roll Call Of Elementary Particles Wherein The Baffling Properties Of Quarks And Gluons With Their Esoteric Flavours Colours Strangeness And Charm Are Reviewed Showing How Their Scientific Characteristics Tend To Merge In Philosophy The Book Meets The Needs Of Honours And Post Graduate Students Offering Nuclear Radiation And Radiochemistry **Hungarian R&D Articles** , 2003 Principles Of Nuclear Chemistry Peter A C Mcpherson, 2016-12-21 Principles of Nuclear Chemistry is an introductory text in nuclear chemistry and radiochemistry aimed at undergraduates with little or no knowledge of physics It covers the key aspects of modern nuclear chemistry and includes worked solutions to end of chapter questions The text begins with basic theories in contemporary physics and uses these to introduce some fundamental mathematical techniques It relates nuclear phenomena to key divisions of chemistry such as atomic structure spectroscopy equilibria and kinetics It also gives an introduction to f block chemistry and the nuclear power industry This book is essential reading for those taking a first course in nuclear chemistry and is a useful companion to other volumes in physical and analytical chemistry It will also be of use to those new to working in nuclear chemistry or radiochemistry *Non-Born-Oppenheimer Chemistry* Ahren Ward Jasper, 2003 *Energy Research Abstracts* , 1984 **The Journal of Chemical Physics** , 1999 **Femtosecond Chemistry** Jörn Manz, Ludger Wöste, 1995-01-18 Femtosecond chemistry is central to our understanding of chemical reactivity with applications in many fields of chemistry and related sciences This professional text provides a fully referenced introduction to this exploding new field Leading

authors among them Nobel Laureate Lord George Porter and Ahmed Zewail introduce the reader in a comprehensive manner to general concepts experimental techniques theoretical approaches Starting with a historical overview this up to date and didactically well organized compendium provides many textbook type examples of exciting systems from simple molecules and clusters to liquids surfaces solids and biomolecules This book is a valuable tool for researchers in molecular physics theoretical chemistry physical chemistry quantum optics cluster and surface science and biophysical chemistry But also newcomers and graduate students who want to know more about femtosecond chemistry will benefit from this volume

Radiochemistry and Nuclear Chemistry Gregory Choppin, Jan-Olov Liljenzin, Jan Rydberg, Christian Ekberg, 2013-09-05 Radiochemistry or nuclear chemistry is the study of radiation from an atomic and molecular perspective including elemental transformation and reaction effects as well as physical health and medical properties This revised edition of one of the earliest and best known books on the subject has been updated to bring into teaching the latest developments in research and the current hot topics in the field To further enhance the functionality of this text the authors have added numerous teaching aids examples in MathCAD with variable quantities and options hotlinks to relevant text sections from the book and online self grading tests New edition of a well known respected text in the specialized field of nuclear radiochemistry Includes an interactive website with testing and evaluation modules based on exercises in the book Suitable for both radiochemistry and nuclear chemistry courses **Catalogs of Courses** University of California, Berkeley, 1974 Includes general and summer catalogs issued between 1878 1879 and 1995 1997 *Modern Nuclear Chemistry* Walter D. Loveland, David J. Morrissey, Glenn T. Seaborg, 2017-04-10 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 Nuclear Chemistry Maheshwar Sharon, Madhuri Sharon, 2021-02-01 This book is designed to serve as a textbook for core courses offered to postgraduate students enrolled in chemistry This book can also be used as a core or supplementary text for nuclear chemistry courses offered to students of chemical engineering The book covers various topics of nuclear chemistry like Shell model fission fusion reaction natural radioactive equilibrium series nuclear reactions carried by various types of accelerators In addition it describes the law of decay of radioactivity type of decay and interaction of radiation with matter It explains the difference

between ionization counter scintillation counter and solid state detector This book also consists of end of book problems to help readers aid self learning The detailed coverage and pedagogical tools make this an ideal textbook for postgraduate students and researchers enrolled in various chemistry and engineering courses This book will also be beneficial for industry professionals in the allied fields **Russian Chemical Reviews** ,2001

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 $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$
 $2\text{NaCl} + \text{F}_2 \rightarrow 2\text{NaF} + \text{Cl}_2$
 $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
 $5\text{Pb} + 2\text{HCl} \rightarrow 2\text{H}_2 + \text{PbCl}_2$
 $2\text{Al} + 3\text{Br}_2 \rightarrow 2\text{AlBr}_3$
 $3\text{K}_2\text{SO}_4 + 4\text{KBr} + \text{Al}_2\text{SO}_4 \rightarrow 3\text{K}_2\text{SO}_4 + 4\text{KBr} + \text{Al}_2\text{SO}_4$
 $4\text{CH}_4 + 7\text{O}_2 \rightarrow 2\text{CO}_2 + 2\text{H}_2\text{O}$
 $8\text{C}_3\text{H}_8 + 5\text{O}_2 \rightarrow 2\text{CO}_2 + 4\text{H}_2\text{O}$

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 $1\text{ N}_2 + \text{F}_2 \rightarrow 2\text{NF}_3$
 $2\text{C}_6\text{H}_{10}\text{O}_2 + \text{CO}_2 + \text{H}_2\text{O} \rightarrow 3\text{HBr} + \text{KHCO}_3 + \text{H}_2\text{O} + \text{KBr} + \text{CO}_2 + \text{GaBr} + \text{NaBr} + \text{SnO}_4 + \text{NaSO}_3 + \text{GaSO}_3 + 3\text{NF}_3 + \text{SnF}_2 + \text{N}_2\text{O}_3$ using the equation from problem 2 above answer the following

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 $2\text{C}_6\text{H}_{10}\text{O}_2 + 17\text{O}_2 \rightarrow 12\text{CO}_2 + 10\text{H}_2\text{O}$

co2 10 h2o 3 4 5 1 hbr 1 khco3 1 h2o 1 kbr 1 co2 2 gabr3 3 na2so3 1 ga2 so3 3 6 nabr 3 sno 2 nf3 3 snf2 1 n2o3 using the following equation 2 naoh h2so4 2 h2o na2so4

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