

Balancing Nuclear Equations

1. Write balanced equations for the following nuclear reactions:

- (A) The isotope C-11 decays by electron capture.
- (B) Curium-246 reacts with carbon-12 to produce nobelium-254 and four neutrons.
- (C) Californium-250 reacts with boron-10 to produce lawrencium-258 and two neutrons.
- (D) Fluorine-18 decays to oxygen-18 by positron emission.
- (E) Sodium-24 decays by beta emission.
- (F) Krypton-76 absorbs a beta particle to form bromine-76.

2. Fill in the blanks to complete the following nuclear reactions.

- (A) ${}^1_1\text{H}_1 + {}^7_3\text{Li}_3 \rightarrow$ _____
- (B) ${}^9_4\text{Be}_4 + {}^1_0\text{n}_0 \rightarrow {}^4_2\text{He}_2 +$ _____ $+ {}^4_2\text{He}_2$
- (C) ${}^{27}_{13}\text{Al}_{13} + {}^4_2\text{He}_2 \rightarrow$ _____ $+ {}^{30}_{15}\text{P}_{15}$
- (D) ${}^{63}_{29}\text{Cu}_{29} + {}^2_1\text{H}_1 \rightarrow 2 {}^1_0\text{n}_0 +$ _____
- (E) ${}^9_4\text{Be}_4 + {}^4_2\text{He}_2 \rightarrow$ _____ $+ {}^{12}_6\text{C}_6$
- (F) ${}^{239}_{93}\text{Np}_{93} \rightarrow {}^0_{-1}\text{e}_{-1} +$ _____
- (G) ${}^4_2\text{He}_2 + {}^{238}_{92}\text{U}_{92} \rightarrow 2 {}^1_0\text{n}_0 +$ _____

Key Terms Nuclear Changes Worksheet

Michael J. Padilla



Key Terms Nuclear Changes Worksheet:

Britain Since 1930 Paul Flux, 2001 *Resources in Education*, 1997 **Science Spectrum** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 **Focus on Earth Science**, 2001 **World Studies: Eastern Hemisphere** Heidi Hayes Jacobs, Michal L. LeVasseur, 2004-08 Foundations of geography World of geography Earth's physical geography Earth's human geography Cultures of the world Interacting with our environment Europe and Russia Europe and Russia physical geography Europe and Russia shaped by history Cultures of Europe and Russia Western Europe Eastern Europe and Russia Africa Africa physical geography Africa shaped by its history Cultures of Africa North Africa West Africa Exploring East Africa Central and Southern Africa Asia and the Pacific East Asia physical geography South Southwest and Central Asia physical geography Southeast Asia and the Pacific region physical geography East Asia cultures and history South and Southeast Asia cultures and history Southeast Asia and the Pacific region cultures and history East Asia South Southwest and Central Asia Southeast Asia and the Pacific region Glossary **Prentice Hall Science Explorer** Michael J. Padilla, 2002 *Linne & Ringsrud's Clinical Laboratory Science - E-Book* Mary Louise Turgeon, 2015-02-10 Using a discipline by discipline approach Linne perforated pages make it easy for students to remove for use in the lab and for assignment of review questions as homework NEW Instrumentation updates show new technology being used in the lab NEW Additional key terms in each chapter cover need to know terminology NEW Additional tables and figures in each chapter clarify clinical lab science concepts Environmental Modelling John Wainwright, Mark Mulligan, 2013-04-01 Simulation models are an established method used to investigate processes and solve practical problems in a wide variety of disciplines Central to the concept of this second edition is the idea that environmental systems are complex open systems The authors present the diversity of approaches to dealing with environmental complexity and then encourage readers to make comparisons between these approaches and between different disciplines Environmental Modelling Finding Simplicity in Complexity 2nd edition is divided into four main sections An overview of methods and approaches to modelling State of the art for modelling environmental processes Tools used and models for management Current and future developments The second edition evolves from the first by providing additional emphasis and material for those students wishing to specialize in environmental modelling This edition Focuses on simplifying complex environmental systems Reviews current software tools and techniques for modelling Gives practical examples from a wide variety of disciplines e.g. climatology ecology hydrology geomorphology and engineering Has an associated website containing colour images links to WWW resources and chapter support pages including data sets relating to case studies exercises and model animations This book is suitable for final year undergraduates and postgraduates in environmental modelling environmental science civil engineering and biology who will already be familiar with the subject and are moving on to specialize in the field It is also designed to appeal to professionals interested in the environmental sciences including environmental consultants government employees civil engineers

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