Name:

Date:

Balancing Nuclear Equations

- 1. Write balanced equations for the following nuclear reactions:
 - (A) The isotope C-11 decays by electron capture.
 - (8) 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.

(B)
$$^{7}Be_{4} + ^{1}n_{\circ} \rightarrow ^{1}H_{1} + ^{4}He_{2}$$

(C)
$$^{27}AI_{13} + ^{4}He_{2} \rightarrow _ _ + ^{30}P_{15}$$

(D)
$$^{63}Cu_{29} + ^{2}H_{1} \rightarrow 2^{1}n_{0} + ______$$

Nuclear Equations Worksheet Answer Key

NARAYAN CHANGDER

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star and other stellar processes phase transitions in quantum chromodynamics and properties of quark gluon plasma The present status of the VUU model for the intermediate energy heavy ion collisions is also reviewed The Nuclear equation of state H. H. Gutbrod, Horst Stöcker, 1991 The Nuclear Equation of State ,1989 Today's Nuclear Equation, The Nuclear Equation of State ,1986 **Tables of Nuclear Reaction Q Values** Val J. Ashby, Henry C. **Nuclear Reactions Q-values** ,1966 **Nuclear Equation of State Studied with High-energy Heavy** Catron.1959 Ions, 1981 The current knowledge and theoretical speculations concerning the nuclear equation of state is discussed Conventional relativistic nuclear fluid dynamics which is based on the assumption that the nucleon mean free path is zero and consequently neglects the interpenetration of the target and projectile upon contact is also discussed Results of such calculations performed for three different equations of state are compared with experimental data for both all impact parameters and central collisions for the reaction 2 Ne 238U at a laboratory bombarding energy per nucleon of 393 MeV These comparisons suggest that we need to take into account target and projectile interpenetration which is done on the basis of a two fluid model An assessment of the present status and future prospects for determining the nuclear equation of state with high energy heavy ions is given WHK **Nuclear Equation of State, General Relativity and Supernovae Explosions**, 1985 Prompt explosions are obtained in hydrodynamic simulations for the 12 Msub solar and 15 Msub solar type II supernova initial models of Weaver and Woosley when the nuclear equation of state is sufficiently soft and when general The Nuclear Equation of State, General Relativity, and Supernovae Explosions, 1985 relativity is included 12 refs Nuclear Tables. Part 2 Wunibald Kunz, Josef Schintlmeister, 1963

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