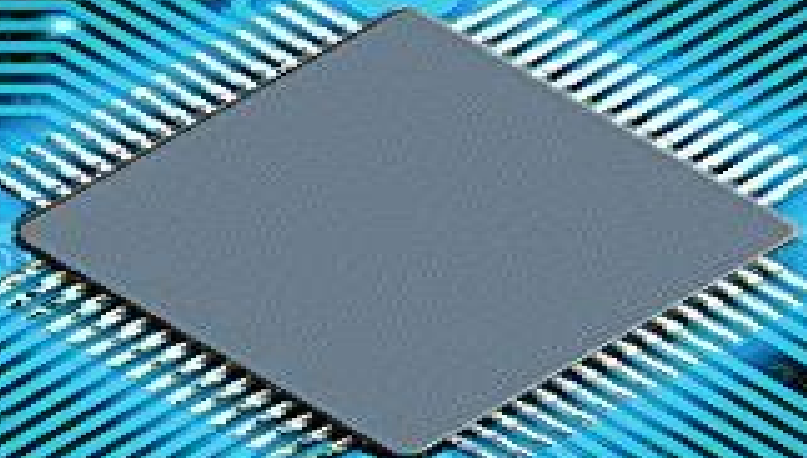


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up by radiation d radiation is used to stimulate the growth of cancer cells 2 what is the term for an ongoing series of nuclear

reactions

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web write a balanced equation for each of the following nuclear reactions bismuth 212 decays into polonium 212 beryllium 8

and a positron are produced by the decay of an unstable nucleus neptunium 239 forms from the reaction of uranium 238 with

a neutron and then spontaneously converts into plutonium 239

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decay of a particular radioactive nucleus is random 50 of a collection of radioactive nuclei decays in one

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web positron answer b explanation the gamma rays leave the atomic number and mass numbers unaltered when they leave

gamma rays in turn lower down the energy of the nucleus from a high energy state to a lower energy state this happens by

the release of some electromagnetic radiation by the nucleus q4

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web jun 28 2022 the two general kinds of nuclear reactions are nuclear decay reactions and nuclear transmutation

reactions in a nuclear decay reaction also called radioactive decay an unstable nucleus emits radiation and is transformed

into the nucleus of one or more other elements

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web the answer is nuclear radioactivity that is high energy particles produced in radioactive decays heat earth from the inside figure pageindex 6 figure pageindex 6 earth is heated by nuclear reactions alpha beta and gamma decays without these reactions earth s core and mantle would be much cooler than it is now

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web a nuclear fuel a fissionable isotope must be present in large enough quantities to sustain a controlled chain reaction the radioactive isotope is contained in tubes called fuel rods a moderator a moderator slows neutrons produced by nuclear reactions so that they can be absorbed by the fuel and cause additional nuclear reactions a coolant

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web dec 9 2013 radioactivity is the decay or rearrangement of an atom's nucleus michael kappel radioactivity is the term given to the breaking up decay or rearrangement of an atom's nucleus decay occurs

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web as with chemical reactions nuclear reactions are always balanced when a nuclear reaction occurs the total mass number and the total charge remain unchanged nuclei that have unstable n/p ratios undergo spontaneous radioactive decay