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Introduction to Nuclear Reactor. Before we start with the nuclear reactor, a basic understanding of nuclear fission is necessary. Nuclear fission is the process where the nucleus of a heavy atom splits into fragments of lighter nuclei.

CHAPTER 1 Introduction to Nuclear Reactors

A nuclear reactor is a piece of equipment where nuclear chain reactions can be controlled and sustained. The reactors use nuclear fuel, most commonly uranium-235 and plutonium-239. The amount of free energy in nuclear fuels is far greater than the energy in a similar amount of other fuels such as gasoline.

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The fuel used in nuclear reactors usually consists of a few percent of ^{235}U mixed with ^{238}U . ^{235}U has a half life of 7:038 108 years and ^{238}U has a half life of 4:47 109 years. Since ^{238}U is the most abundant element the initial activity of the fuel is primarily due to the ^{238}U . When the fuel is being used in the reactor many radioactive ...

Nuclear Reactors | Introduction to Chemistry

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The reactor vessel for the GFR and VHTR can be from the same material and use either a ferritic Light Water Reactor (LWR) steel such as SA 508 (as used for the Pressurised Water Reactor (PWR)) which will require the introduction of additional cooling to maintain temperatures within the PWR operating temperature range (200–300 ° C) during its operational lifetime, or a Cr-Mo steel such as 2 1 ...

Introduction to

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Introduction to Nuclear Reactors prepared by Dr. Robin Chaplin Summary: This chapter provides a top-level introduction to nuclear reactors and surveys the world reactor situation. The various commercial large power producing reactors are identified and described against a brief background of nuclear reactor principles and key reactor components ...

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