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Fundamentals Of Nuclear Reactor Physics

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Nuclear ...

Since nucleon binding energies are of the order of their kinetic energies $mv^2/2$, nucleons within the nucleus move at non-relativistic velocities $v^2/c^2 \sim 10^{-4}$. A nuclear species, or nuclide, is defined by N , the number of neutrons, and by Z , the number of protons. The mass number A is the total number of nucleons, i.e. $A = N + Z$.

Fundamentals in Nuclear Physics

Reactor Fundamentals / Nomenclature / Nuclear Reactions / Nuclear Stability: Chapter 1 [EEL] 2: Neutron Sources / Binding Energy / Fission Process / Chart of Nuclides: Chapter 1 [EEL] (cont.) 3: Radioactive Decay / Cross-Sections: Chapters 2 and 3 [EEL] (cont.) 4: Compound Nucleus / Resonances / Neutron Scattering: Chapters 2 and 3 [EEL] (cont.) 5

Lecture Notes | Neutron Science and Reactor Physics ...

The author focusses on the basic and main essentials of nuclear reactor physics. He guides the reader from the basics of nuclear physics like radiation and absorption through carefully selected topics as cross-sections, four-factor formula, neutron physics, temperature and power coefficients to the long-term behavior of the reactor core.

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ATOMIC AND NUCLEAR STRUCTURE 1.3.1. Basic definitions
Protons and neutrons are referred to as nucleons They are bound in the nucleus with the strong force The strong force between two nucleons is a very short-range force, active only at distances of the order of a few femtometer (fm). $1 \text{ fm} = 10^{-15} \text{ m}$

Chapter 1: Fundamentals of Atomic and Nuclear Physics

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Nuclear reactor physics is the branch of science that deals with the study and application of chain reaction to induce a controlled

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rate of fission in a nuclear reactor for the production of energy.

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