

Chapter 1

Neutron-Nucleus Interactions and Fission

The central problem in nuclear-reactor kinetics is to predict the evolution in time of the neutron population in a multiplying medium. Point kinetics allows the study of the global behaviour of the neutron population from the average properties of the medium. Before tackling, in the following chapters, the equations governing the time evolution of the reactor power (proportional to the total neutron population), we shall discuss briefly the properties of a neutron-multiplying medium. After recalling a number of definitions, we shall give a qualitative description of the principal nuclear reactions at play in a self-multiplying chain reaction, and dwell on the source of fission neutrons. Since delayed neutron play a crucial role in reactor kinetics, we shall describe in greater detail their production in a reactor.

1.1.1 Neutron-Nucleus Interactions

A neutron is an electromagnetic particle. It is stable when bound to a nucleus by the nuclear force. In its free state, a neutron decays, with a time constant of 12 minutes, to a proton, accompanied by the emission of a β particle and an antineutrino. In view of the fact that free neutrons in a reactor either are absorbed in matter or escape, on a time scale of less than 10^{-4} s, it is clear that neutron stability is completely negligible in reactor physics.

The power generated in a reactor comes from neutron-induced fission. It results from the interaction between the neutrons and the nuclei of the physical medium. It is generally possible to neglect neutron-nucleus interactions, because the density of neutrons is much smaller than that of nuclei. Free neutrons have a certain speed relative to nuclei. If one neglects the energy of thermal motion of the nuclei, the kinetic energy E of a neutron represents the energy available for a nuclear reaction between it and a nucleus. If we denote the relative speed of a neutron by v and its mass by m , then

$$E = \frac{1}{2}mv^2 \quad (1-1)$$

The energy is generally given in units of electron-volts (1 eV = 1.602×10^{-19} J).

1.1.1.1 Cross Sections

Interactions of neutrons with nuclei are described in terms of quantities called cross sections, which can be defined in the following fashion. Imagine a multidirectional neutron beam with a density of n neutrons per cm², of speed v , impinging perpendicularly on a thin slice of a target with a density of N identical nuclei per cm². Define the neutron flux Φ by

$$\Phi = n v \quad (1-2)$$

¹The speed of neutrons in a reactor is sufficiently low that one can neglect relativistic effects. Therefore $m = m_0$, the neutron rest mass (1.67488×10^{-27} kg).

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Table of Contents Nuclear Physics Reactor Solution Manual Lewis

1. Understanding the eBook Nuclear Physics Reactor Solution Manual Lewis
 - The Rise of Digital Reading Nuclear Physics Reactor Solution Manual Lewis
 - Advantages of eBooks Over Traditional Books
2. Identifying Nuclear Physics Reactor Solution Manual Lewis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nuclear Physics Reactor Solution Manual Lewis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nuclear Physics Reactor Solution Manual Lewis
 - Personalized Recommendations
 - Nuclear Physics Reactor Solution Manual Lewis User Reviews and Ratings
 - Nuclear Physics Reactor Solution Manual Lewis and Bestseller Lists
5. Accessing Nuclear Physics Reactor Solution Manual Lewis Free and Paid eBooks
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 - Adjustable Fonts and Text Sizes of Nuclear Physics Reactor Solution Manual Lewis
 - Highlighting and Note-Taking Nuclear Physics Reactor Solution Manual Lewis
 - Interactive Elements Nuclear Physics Reactor Solution Manual Lewis
8. Staying Engaged with Nuclear Physics Reactor Solution Manual Lewis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nuclear Physics Reactor Solution Manual Lewis
9. Balancing eBooks and Physical Books Nuclear Physics Reactor Solution Manual Lewis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nuclear Physics Reactor Solution Manual Lewis
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nuclear Physics Reactor Solution Manual Lewis
 - Setting Reading Goals Nuclear Physics Reactor Solution Manual Lewis
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nuclear Physics Reactor Solution Manual Lewis
 - Fact-Checking eBook Content of Nuclear Physics Reactor Solution Manual Lewis
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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