

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 variation 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-sustaining chain reaction, and dwell on the source of fission neutrons. Since delayed neutrons play a crucial role in reactor kinetics, we shall describe in greater detail their production in a reactor.

1.1 Neutron-Nucleus Interactions

A neutron is an elementary 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^{-5} s, it is clear that neutron instability is completely negligible in reactor physics.

The power generated in a reactor comes from neutron-induced fissions. It results from the interaction between the neutrons and the nuclei of the physical medium. It is generally possible to neglect neutron-neutron 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 to 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 ($1 \text{ eV} = 1.6021 \times 10^{-19} \text{ J}$).

1.1.1 Cross Sections

Interactions of neutrons with matter are described in terms of quantities called cross sections, which can be defined in the following fashion. Imagine a unidirectional neutron beam with a density of n neutrons per cm^2 , of speed v , impinging perpendicularly on a thin slice of a target with a density of N identical nuclei per cm^2 . Define the neutron flux ϕ by

$$\phi = nv \quad (1-2)$$

¹ The speed of neutrons in a reactor is sufficiently low that one can neglect relativistic effects. Therefore $m = m_0$, the neutron rest mass ($1.6748 \times 10^{-27} \text{ kg}$).

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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
 - Nuclear Physics Reactor Solution Manual Lewis Public Domain eBooks
 - Nuclear Physics Reactor Solution Manual Lewis eBook Subscription Services
 - Nuclear Physics Reactor Solution Manual Lewis Budget-Friendly Options
6. Navigating Nuclear Physics Reactor Solution Manual Lewis eBook Formats

- ePub, PDF, MOBI, and More
- Nuclear Physics Reactor Solution Manual Lewis Compatibility with Devices
- Nuclear Physics Reactor Solution Manual Lewis Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - 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
 - Interactive and Gamified eBooks

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