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Graduate students and nuclear-industry professionals interested in reviewing fundamental reactor-physics concepts will also find it useful. Readers will get a better understanding of essential reactor-physics concepts through simple problems with solutions that require, for the most part, only modest mathematical tools that won't obscure the underlying physical phenomena.

~~Lewis, Elmer | Faculty | Northwestern Engineering~~

~~Problems in Elementary Reactor Physics, with Solutions Experimental Technical Bases for Evaluating Vapor/Steam Explosions in Nuclear Reactor Safety Light Water Reactor Materials, Volume I: Fundamentals~~

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~~Fundamentals of Nuclear Reactor Physics—1st Edition~~

A knowledge of atomic and nuclear physics is essential to nuclear engineers, who deal with nuclear reactors. It should be noted that atomic and nuclear physics is very extensive branch of science. Nuclear reactor physics belongs to an applied physics as a particle physics or nuclear chemistry. These branches have common fundamentals.

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In reactor physics the need sometimes arises to express the cross section of an element in terms of cross sections of its constituent isotopes. To accomplish this we first let $N_i = N$ denote the atomic fraction of the isotope with atomic weight A_i . The atomic weight of the mixture is then $A = \sum N_i A_i$; $\sum N_i = 1$ where $N_i = \frac{P_i}{N}$

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Principle of a nuclear reactor. In a nuclear reactor certain very heavy nuclei (e.g. ^{235}U) can be split into two fragments by neutrons, whereby a relatively large amount of energy is released and, moreover, a few new neutrons, which in their turn can cause new fissions.

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~~Fundamentals of Nuclear Reactor Physics 1, Elmer E. Lewis ...~~

Preface xiii 1 Nuclear Reactions 1 1.1 Introduction 1 1.2 Nuclear Reaction Fundamentals 2 Reaction Equations 3 Notation 5 Energetics 5 1.3 The Curve of Binding Energy 7 1.4 Fusion Reactions 8 1.5 Fission Reactions 9 Energy Release and Dissipation 10 Neutron Multiplication 12 Fission Products 13 1.6 Fissile and Fertile Materials 16 1.7 Radioactive ...

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~~Reactor Kinetics—Nuclear Power~~

Solutions manual for Intro Nuclear Physics by Krane A little explanation, I am physical chemist transitioning into nuclear engineering and I am trying to complete Krane's book over the summer. I need to find answers/solutions so I can check my work.

~~Fundamentals of Nuclear Reactor Physics: Elmer E. Lewis Ph ...~~

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~~Nuclear Reactor Physics—Gamma Explorer~~

Zero Power Criticality vs. Power Operation Reactor Kinetics vs. Reactor Dynamics. In preceding chapters (Nuclear Chain Reaction), the classification of states of a reactor according to the effective multiplication factor - k_{eff} was introduced. The effective multiplication factor - k_{eff} is a measure of the change in the fission neutron population from one neutron generation to the ...

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the fission nuclear reactor works, the various approaches to the design of reactors, and their safe and efficient operation . It provides a clear, general overview of atomic physics from the standpoint of reactor functionality and design, including the sequence of fission reactions and their energy release.

~~Reactor Physics—Nuclear Power~~

The nuclear fission reactions that underlie power reactors that is, reactors built to produce electric power, propulsion for ships, or other forms of energy use convert measurable amounts of mass to energy. Thus an appropriate place to begin a study of the physics of nuclear power is with the underlying nuclear reactions. To understand the large

~~Fundamentals of Nuclear Reactor Physics—CERN~~

This textbook contains most of the information needed to consider nuclear reactor physics. It makes a lot of assumptions and simplifications, as it is a more introductory textbook, however the principles and theory are spot on. If you're considering majoring in nuclear engineering - specifically working on reactors, this is the book for you.

~~Harry N. Abrams, Inc.~~

Research Interests. Computational method of neutron transport, nuclear reactor physics, reliability and risk assessment. Professor Lewis's research has included combining finite elements with other methods for the solution of the Boltzmann equation for neutron transport problems in six-dimensional space-angle-energy phase space.

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