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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. ...

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Two-Group Theory of Reflected Reactors. 133. Numerical Solutions for Multigroup Diffusion Theory. 137. 5 Nuclear Reactor Dynamics 143. 5.1 Delayed Fission Neutrons. 143. Neutrons Emitted in Fission Product Decay. 143. Effective Delayed Neutron Parameters for Composite Mixtures. 145. Photoneutrons. 146. 5.2 Point Kinetics Equations. 147. 5.3 ...

Nuclear Reactor Physics - Gamma Explorer

The singularly perturbed method (SPM) is proposed to obtain the analytical solution for the delayed supercritical process of nuclear reactor with temperature feedback and small step reactivity inserted. The relation between the reactivity and time is derived. Also, the neutron density (or power) and the average density of delayed neutron precursors as the function of reactivity are presented.

Solution of Point Reactor Neutron Kinetics Equations with ...

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

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TY - BOOK. T1 - Fundamentals of Nuclear Reactor Physics. AU - Lewis, Elmer E. PY - 2008/1/1. Y1 - 2008/1/1. N2 - This new streamlined text offers a one-semester treatment of the essentials of how the fission nuclear reactor works, the various approaches to the design of reactors, and their safe and efficient operation.

Fundamentals of Nuclear Reactor Physics □ Northwestern ...

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. Applications are primarily to the simulation of neutron transport in nuclear reactor cores.

Lewis, Elmer | Faculty | Northwestern Engineering

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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