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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

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The Bohr radius of the hydrogen atom and the Compton wavelength of an electron are given by $a_0 = \frac{h^2}{m_e e^2}$ and $\lambda_c = \frac{h}{m_e c}$ respectively.

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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 ...

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.

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3.2 Nuclear Fuel Properties Much of the physics of nuclear reactors is determined by the energy dependence of the cross sections of fissile and fertile materials over the range of incident neutron energies between the fission spectrum and the Maxwell-Boltzmann distribution of thermal neutrons, thus over the range between roughly 10MeV and 0.001eV.

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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 ...

Problems in Elementary Reactor Physics, with Solutions ...

The DOE Fundamentals Handbook: Nuclear Physics and Reactor Theory, Volume 2 of 2, provides a general overview of some of the important concepts of reactor theory. It is written to cover a generic commercial nuclear reactor whose primary purpose is electric power generation, and not a Naval reactor whose main purpose is propulsion.

SOLUTIONS REACTOR DYNAMICS PRACTICE PROBLEMS FOR TECHNICAL ...

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Lecture Notes | Neutron Science and Reactor Physics ...

Nuclear Reactor Physics E. E. Lewis Professor of Mechanical Engineering ... This text is intended as a first course in the physics of nuclear reactors. It is designed to be appropriate as an introduction to reactor ... and other topics dependent on the solution of the neutron diffusion equation. Likewise, the compositions of power reactor cores ...

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