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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 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. Photon neutrons. 146. 5.2 Point Kinetics Equations. 147. 5.3 ...

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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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