

5 Nuclear Reactor Dynamics

An understanding of the time-dependent behavior of the neutron population in a nuclear reactor in response to either a planned change in the reactor conditions or to unplanned and abnormal conditions is of the utmost importance to the safe and reliable operation of nuclear reactors. We saw in Chapter 2 that the response of the prompt neutrons is very rapid indeed. However, unless the reactor is supercritical on prompt neutrons alone, the delayed emission of a small fraction of the fission neutrons can slow the increase in neutron population to the delayed neutron precursor decay time scale of seconds, providing time for corrective control measures to be taken. If a change in conditions makes a reactor supercritical on prompt neutrons alone, only intrinsic negative feedback mechanisms that automatically provide a compensating change in reactor conditions in response to an increase in the neutron population can prevent a runaway increase in neutron population (and fission power level). However, some of the intrinsic changes in reactor conditions in response to a change in power level may enhance the power excursion (positive feedback), and others may be negative but delayed sufficiently long that the compensatory reactivity feedback is out of phase with the actual condition of the neutron population in the reactor, leading to power-level instabilities. These reactor dynamics phenomena, the methods used for their analysis, and the experimental techniques for determining the basic kinetics parameters that govern them are discussed in this chapter.

5.1 Delayed Fission Neutrons

Neutrons Emitted in Fission Product Decay

The dynamics of a nuclear reactor or any other fission chain-reacting system under normal operation is determined primarily by the characteristics of the delayed emission of neutrons from the decay of fission products. The total yield of delayed neutrons per fission, ν_d , depends on the fissioning isotope and generally increases with the energy of the neutron causing fission. Although there are a relatively large number of fission products which subsequently decay via neutron emission, the

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