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Weston M. Stacey Nuclear Reactor Physics

Nuclear reactor physics is the core discipline of nuclear engineering. Nuclear reactors now account for a significant portion of the electrical power generated worldwide, and new power reactors with improved fuel cycles are being developed. At the same time, the past few decades have seen an ever-increasing number of industrial, medical ...

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The fuel used in nuclear reactors usually consists of a few percent of ²³⁵U mixed with ²³⁸U. ²³⁵U has a half life of 7:038 108 years and ²³⁸U has a half life of 4:47 109 years. Since ²³⁸U is the most abundant element the initial activity of the fuel is primarily due to the ²³⁸U. When the fuel is being used in the reactor many radioactive ...

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In short, Stacey's book is a good reference for advanced topics, but is too rushed in its explanation of fundamentals to be a primary or only reference, especially if you haven't previously studied reactor physics. It also serves as a good "halfway point" between diffusion-based reactor physics texts, and transport theory books like Lewis & Miller.

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Nuclear Reactor Physics - CERN

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.

Reactor Physics - Nuclear Power

As can be seen from the solution of exact point kinetics equation, any reactivity insertion ($\rho < \beta$) causes at first a sharp change in prompt neutrons population and then the neutron response is slowed as a result of the more slowly changing number of delayed neutrons. The rapid response is a result of the small value of prompt neutron generation time in the denominator of point kinetics equation.

Approximate Solution of Point Kinetics Equations

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.

Problems in Elementary Reactor Physics, with Solutions ...

Nuclear reactor physics is the core discipline of nuclear engineering. Nuclear reactors now account for a significant portion of the electrical power generated worldwide, and new power reactors with improved fuel cycles are being developed. At the same time, the past few decades have seen an ever-increasing number of industrial, medical, military, and research applications for nuclear reactors.

Nuclear Reactor Physics - Weston M. Stacey - Google Books

Nuclear Reactor Physics. Weston M. Stacey. This third, completely revised edition of the textbook retains the proven concept of complete and balanced coverage of the topic. The first part looks at basic reactor physics, including, but not limited to nuclear reactions, diffusion theory, reactor dynamics, fuel burnup and reactor safety.

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