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eISBN: 978-1-68108-027-7

Global Neutron Calculations

www.ebooks.benthamsience.com/book/9781681080277

About the eBook

Global Neutron Calculations provides assessment guidelines for nuclear reactors in a step-by-step manner. The book introduces readers to principal physical ideas, the fundamentals of nuclear reactors including the theory of self-sustaining chain reactions and the associated physical and mathematical calculations

Contents

- ▶ Reactor Calculations
- ▶ Foundation of Core Calculations
- ▶ Solutions of the Transport Equations
- ▶ Approximate Solutions
- ▶ Calculational Model
- ▶ Neutron Diffusion
- ▶ Neutron Spectrum
- ▶ Numerical Methods
- ▶ Kinetics

“...covers reactor physics in detail including almost all popular calculational tools...”

*Foreward by Paul Zweifel
Virginia Tech University*

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