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# Global Neutron Calculations

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## 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
- ▶ Computational Model
- ▶ Neutron Diffusion
- ▶ Neutron Spectrum
- ▶ Numerical Methods
- ▶ Kinetics

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