Global Neutron Calculations

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

Provides an excellent discussion of techniques and tools applied in neutron multiplying systems.

Journal of Nuclear Engineering & Radiation Science"