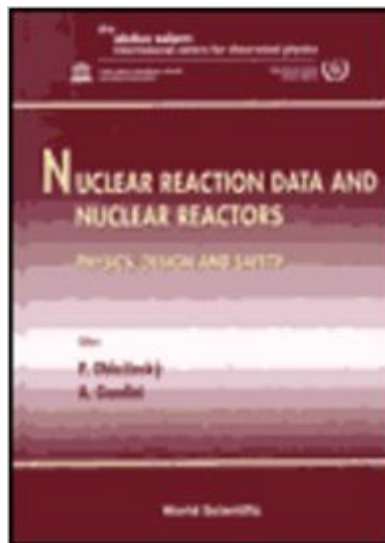




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Synopsis

Provides the information behind nuclear reactor calculations, focusing on a key role of nuclear reaction data, down to the physics of nuclear interactions. Divided into three parts, the text covers: nuclear reaction models, including neutron resonances, fission, the optical model, statistical and preequilibrium models, as well as nuclear level densities; nuclear data filling and processing, lectures on nuclear data evaluation and formatting, and data libraries and services, with emphasis on nuclear-data-processing codes; and applications in nuclear reactor calculations, emphasizing physics, design and safety,

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