



# Sodium Fast Reactors with Closed Fuel Cycle

*Baldev Raj, P. Chellapandi, P.R. Vasudeva Rao*

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Sodium Fast Reactors with Closed Fuel Cycle delivers a detailed discussion of an important technology that is being harnessed for commercial energy production in many parts of the world. Presenting the state of the art of sodium-cooled fast reactors with closed fuel cycles, this book:

- Offers in-depth coverage of reactor physics, materials, design, safety analysis, validations, engineering, construction, and commissioning aspects
- Features a special chapter on allied sciences to highlight advanced reactor core materials, specialized manufacturing technologies, chemical sensors, in-service inspection, and simulators
- Addresses design essentials with a focus on reactor assembly including core and coolant circuits, fuel handling, instrumentation and control, energy conversion, and containment systems
- Provides design codes and standards with sufficient background information to ensure a solid understanding of the underlying mechanics
- Supplies guidelines for concept selection, design, analysis, and validation

**Sodium Fast Reactors with Closed Fuel Cycle** is a valuable reference for industry professionals involved in the construction of fast-reactor power plants, as well as graduate-level engineering students of the design and development of sodium-cooled fast-reactor systems and components.



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