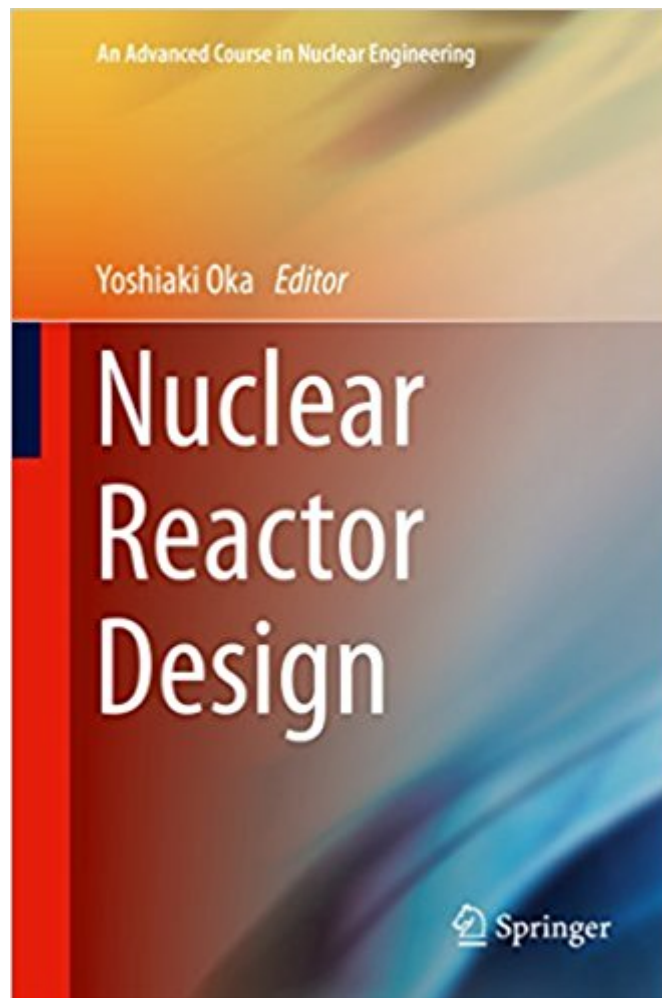




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Nuclear Reactor Design (An Advanced Course In Nuclear Engineering)



Synopsis

This book focuses on core design and methods for design and analysis. It is based on advances made in nuclear power utilization and computational methods over the past 40 years, covering core design of boiling water reactors and pressurized water reactors, as well as fast reactors and high-temperature gas-cooled reactors. The objectives of this book are to help graduate and advanced undergraduate students to understand core design and analysis, and to serve as a background reference for engineers actively working in light water reactors. Methodologies for core design and analysis, together with physical descriptions, are emphasized. The book also covers coupled thermal hydraulic core calculations, plant dynamics, and safety analysis, allowing readers to understand core design in relation to plant control and safety.

Book Information

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Customer Reviews

The book starts from a basic undergraduate background in physics and engineering, in developing the design guidelines of recent years. It shows that there has been steady research and improvements in reactors. Something largely absent from the general news about reactors in the press. The narrative should be understandable to a graduate level coursework. Much of the design

centers on safety issues. Rather topical after the meltdowns in Japan a few years ago. How to safely and redundantly halt a functioning reactor under many possible emergency situations. The reader may want to read these sections of the text closely.

Detailed treatment of reactor core design and analysis techniques. Light water reactors (BWR & PWR), breeder reactors and gas-cooled reactors are addressed.

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