



# **Nuclear Systems Volume I: Thermal Hydraulic Fundamentals, Second Edition: 1**

*Neil E. Todreas, Mujid S Kazimi*

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Nuclear power is in the midst of a generational change—with new reactor designs, plant subsystems, fuel concepts, and other information that must be explained and explored—and after the 2011 Japan disaster, nuclear reactor technologies are, of course, front and center in the public eye.

Written by leading experts from MIT, **Nuclear Systems Volume I: Thermal Hydraulic Fundamentals, Second Edition** provides an in-depth introduction to nuclear power, with a focus on thermal hydraulic design and analysis of the nuclear core. A close examination of new developments in nuclear systems, this book will help readers—particularly students—to develop the knowledge and design skills required to improve the next generation of nuclear reactors.

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Intended for experts and senior undergraduate/early-stage graduate students, the material addresses:

- Different types of reactors
- Core and plant performance measures
- Fission energy generation and deposition
- Conservation equations
- Thermodynamics
- Fluid flow
- Heat transfer

Imparting a wealth of knowledge, including their longtime experience with the safety aspects of nuclear installations, authors Todreas and Kazimi stress the integration of fluid flow and heat transfer, various reactor types, and energy source distribution. They cover recent nuclear reactor concepts and systems, including Generation III+ and IV reactors, as well as new power cycles. The book features new chapter problems and examples using concept parameters, and a solutions manual is available with qualifying course adoption.

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