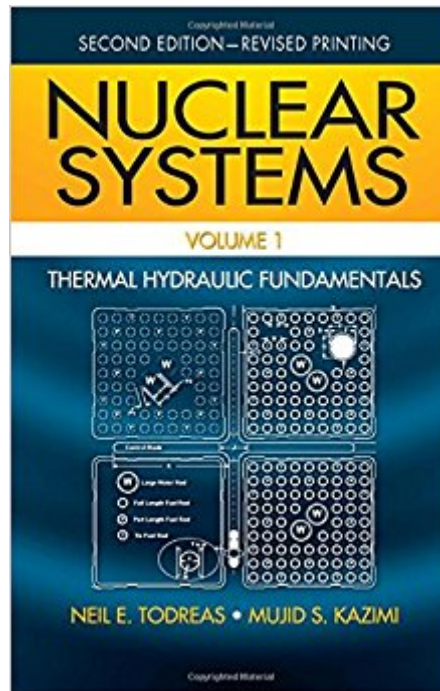


The book was found

Nuclear Systems Volume I: Thermal Hydraulic Fundamentals, Second Edition



Synopsis

Nuclear power is in the midst of a generational changeâ with new reactor designs, plant subsystems, fuel concepts, and other information that must be explained and exploredâ 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 readersâ particularly studentsâ to develop the knowledge and design skills required to improve the next generation of nuclear reactors. Tables for Computation available for download at www.crcpress.com/product/ISBN/9781439808870 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.

Book Information

Hardcover: 1034 pages

Publisher: CRC Press; 2 edition (September 21, 2011)

Language: English

ISBN-10: 1439808872

ISBN-13: 978-1439808870

Product Dimensions: 2 x 6.8 x 9.8 inches

Shipping Weight: 4 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 starsÂ See all reviewsÂ (6 customer reviews)

Best Sellers Rank: #443,853 in Books (See Top 100 in Books) #59 inÂ Books > Engineering &

Transportation > Engineering > Energy Production & Extraction > Nuclear #97 inÂ Books >

Engineering & Transportation > Engineering > Mechanical > Hydraulics #172 inÂ Books > Science

& Math > Physics > Dynamics > Thermodynamics

Customer Reviews

Tough subject to make a quality text for since it is a true mashup of many areas of engineering science. There are some nice diagrams and figures. It is an overall good piece to have on the shelf for a nuclear engineer.

A very comprehensive text covering Nuclear Reactor Thermohydraulics. Cover Thermodynamics of nuclear power plants, and both single phase and two phase heat transfer and fluid flow. A excellent text by an expert and well respected nuclear engineering Professor!

I found out there was another copy with more corrections (that includes red dot on the back). Even though I was sold this erroneous version without any prior information on different versions.

[Download to continue reading...](#)

Nuclear Systems Volume I: Thermal Hydraulic Fundamentals, Second Edition Nuclear Systems Volume 2: Elements Of Thermal Design Fundamentals of Hydraulic Engineering Systems (4th Edition) Nuclear Energy, Seventh Edition: An Introduction to the Concepts, Systems, and Applications of Nuclear Processes Nuclear Weapons Databook: Volume I - U.S. Nuclear Forces and Capabilities Hydrology and Hydraulic Systems Electrical Control of Fluid Power: Electric and Electronic Control of Hydraulic & Air Systems Hydraulic Ram Pumps: A Guide to Ram Pump Water Supply Systems Thermal Energy Storage Using Phase Change Materials: Fundamentals and Applications (SpringerBriefs in Applied Sciences and Technology) Mechanics of Hydraulic Fracturing, Second Edition Design of Fluid Thermal Systems, SI Edition Nuclear War Survival Skills (Upgraded 2012 Edition) (Red Dog Nuclear Survival) Solar Electric Power Generation - Photovoltaic Energy Systems: Modeling of Optical and Thermal Performance, Electrical Yield, Energy Balance, Effect on Reduction of Greenhouse Gas Emissions Design of Fluid Thermal Systems Planning and Installing Solar Thermal Systems: A Guide for Installers, Architects and Engineers Design Analysis of Thermal Systems Fundamentals of Nuclear Science and Engineering Second Edition Nuclear War Survival Skills: Lifesaving Nuclear Facts and Self-Help Instructions Nuclear Chemical Engineering (1957) (McGraw-Hill Series in Nuclear Engineering) NUCLEAR WAR SURVIVAL MANUAL, PROTECTION IN THE NUCLEAR AGE

[Dmca](#)