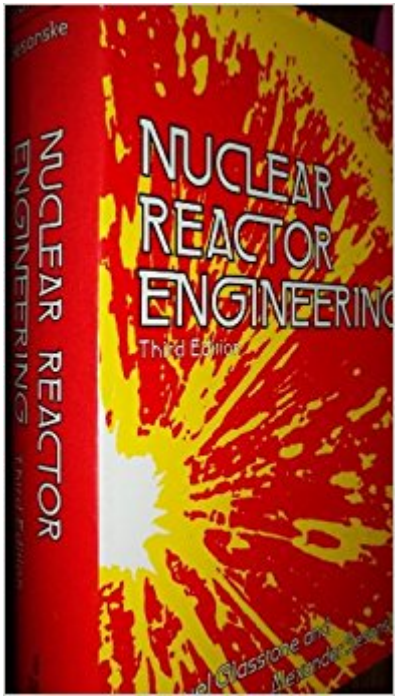
Nuclear Reactor Engineering



Synopsis

Dr. Samuel Glasstone, the senior author of the previous editions of this book, was anxious to live until his ninetieth birthday, but passed away in 1986, a few months short of this milestone. I am grateful for the many years of stimulation received during our association, and in preparing this edition have attempted to maintain his approach. Previous editions of this book were intended to serve as a text for students and a reference for practicing engineers. Emphasis was given to the broad perspective, particularly for topics important to reactor design and operÃ Â- ation, with basic coverage provided in such supporting areas as neutronics, thermal-hydraulics, and materials. This, the Fourth Edition, was prepared with these same general objectives in mind. However, during the past three decades, the nuclear industry and university educational programs have matured considerably, presenting some challenges in meeting the objecÃ Â- tives of this book. Nuclear power reactors have become much more complex, with an acÃ Â- companying growth in supporting technology. University programs now offer separate courses covering such basic topics as reactor physics, thermalÃ Â- hydraulics, and materials. Finally, the general availability of inexpensive xiii xiv Preface powerful micro- and minicomputers has transformed design and analysis procedures so that sophisticated methods are now commonly used instead of earlier, more approximate approaches. --This text refers to an out of print or unavailable edition of this title.

Book Information

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Customer Reviews

Where do I start? I read Glasstone’s work since I became interested in nuclear engineering, and my

college’s library had two books by him. When I ran across this particular volume I bought it, $120 in those days. Sold it for roughly that in 1990. I’ve been looking for it ever since.This textbook is an excellent introduction to a seemingly difficult topic. Dr. Glasstone makes it seem simple. The latest edition is in two volumes, but this one is still the best, I think.

This book was in perfect condition. While the cover is correct (Nuclear Reactor Engineering Reactor Systems Engineering), the entire book inside is incorrect. The inside text is a textbook called Approximation Algorithms by Vijay Vazirani. Very disappointed in this purchase as this textbook was needed for coursework.

This is a good general reference work regarding nuclear reactor engineering and design, aimed mainly at undergrad. and graduate students in nuclear engineering but also useful to engineerings and physical engineers working with extant reactors. The authors and editors do a good job of covering advances in systems control and related areas up to the 1994 publication of this edition.

Review of the 3rd Edition,The book is considered one of the great text books and references in the Nuclear field, although it has been written by a Physical Chemist and Chemical Engineer expert from Manhatten project. Both authors had long relations with the U.S. Department of energy. The book stressess more on the mathematical modeling and solutions more than the engineering aspects in the Nuclear Engineering. It’s language is of high standard which make it difficult to grasp from students.Having final answers of the problems at the end would help the students Also, having some internet links to more info will make more valuable source of references.

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This book is an excellent beginner’s introduction to reactor kinetics and theory. A good mathematical background is required to understand most of the concepts and equations covered.

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