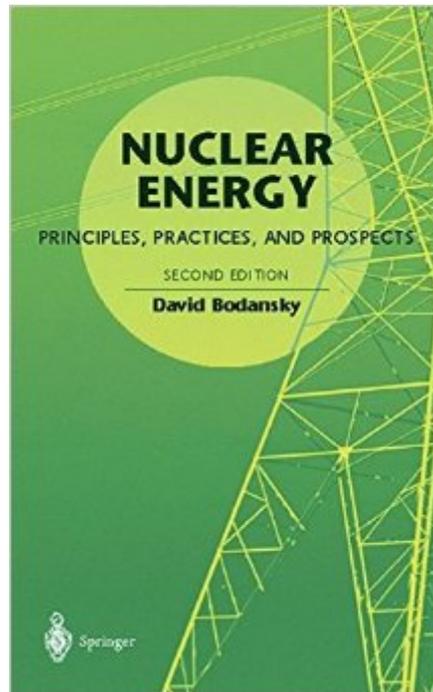


The book was found

Nuclear Energy: Principles, Practices, And Prospects



Synopsis

This second edition represents an extensive revision of the first edition, - though the motivation for the book and the intended audiences, as described in the previous preface, remain the same. The overall length has been increased substantially, with revised or expanded discussions of a number of topics, - cluding Yucca Mountain repository plans, new reactor designs, health effects of radiation, costs of electricity, and dangers from terrorism and weapons proliferation. The overall status of nuclear power has changed rather little over the past eight years. Nuclear reactor construction remains at a very low ebb in much of the world, with the exception of Asia, while nuclear power's share of the electricity supply continues to be about 75% in France and 20% in the United States. However, there are signs of a heightened interest in considering possible nuclear growth. In the late 1990s, the U. S. Department of Energy began new programs to stimulate research and planning for future reactors, and many candidate designs are now contending - at least on paper - to be the next generation leaders. Outside the United States, the commercial development of the Pebble Bed Modular Reactor is being pursued in South Africa, a French- German consortium has won an order from Finland for the long-planned EPR (European Pressurized Water Reactor), and new reactors have been built or planned in Asia. In an unanticipated positive development for nuclear energy, the capacity factor of U. S. reactors has increased dramatically in recent years, and most operating reactors now appear headed for 20-year license renewals.

Book Information

Hardcover: 694 pages

Publisher: Springer; 2nd edition (April 16, 2008)

Language: English

ISBN-10: 0387207783

ISBN-13: 978-0387207780

Product Dimensions: 6.1 x 1.6 x 9.2 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars - See all reviews (2 customer reviews)

Best Sellers Rank: #766,943 in Books (See Top 100 in Books) #86 in Books > Science & Math > Physics > Nuclear Physics > Atomic & Nuclear Physics #106 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Nuclear #132 in Books > Science & Math > Physics > Nuclear Physics > Particle Physics

Customer Reviews

I am amazed that nobody wrote yet a review of this book. I liked this book a lot. David Bodansky's style is logical, concise and fun to read. What I liked most is that the author succeeds to attack with equal clarity a wide range of diverse subjects about nuclear energy:- Economic considerations on nuclear energy.- The physics principles behind nuclear reactions, and their relevance in reactor design, etc.- Engineering considerations around nuclear reactor design and operations- Administrative considerations around waste disposal. To conclude: if you have some background in physics, math and/or economy, and you need a no-nonsense introduction in the field of nuclear energy, then this book is for you. However, if you just like to read prose, (and you don't enjoy technical details being sprinkled during the exposition) then the book might be too high-level.

Nuclear Energy: Principles, Practices, and Prospects This book offers a wide coverage of both, theory and application, of nuclear energy. Nuclear energy is treated as source of electrical power and as a weapon, with obvious distinction. The physical theory is easy but complete and serves as a good starting point to a wide set of applications that include electrical power production (with a good comparison of costs between nuclear and other ways of producing electricity), research and weapon principles. All these subjects are explored rather deeply, along with their ramifications. It is a good book, worth his prize.

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

Nuclear Energy: Principles, Practices, and Prospects Reiki: The Healing Energy of Reiki - Beginner's Guide for Reiki Energy and Spiritual Healing: Reiki: Easy and Simple Energy Healing Techniques Using the ... Energy Healing for Beginners Book 1) Nuclear Energy, Seventh Edition: An Introduction to the Concepts, Systems, and Applications of Nuclear Processes Nuclear War Survival Skills: Lifesaving Nuclear Facts and Self-Help Instructions Nuclear Weapons Databook: Volume I - U.S. Nuclear Forces and Capabilities Nuclear Chemical Engineering (1957) (McGraw-Hill Series in Nuclear Engineering) Nuclear War Survival Skills (Upgraded 2012 Edition) (Red Dog Nuclear Survival) NUCLEAR WAR SURVIVAL MANUAL, PROTECTION IN THE NUCLEAR AGE Nuclear Reactor Design (An Advanced Course in Nuclear Engineering) Needs and Prospects of Child and Adolescent Psychiatry Mental Health Information Systems: Problems and Prospects (Studies in Health and Human Services ; V. 1) Conversion Optimization: The Art and Science of Converting Prospects to Customers Prospects for Coal in Electric Power and Industry Declining Prospects: How Extraordinary Competition and Compensation Are Changing America's Major Law Firms Public Health at the Crossroads: Achievements and Prospects Rural America in a Globalizing World: Problems and Prospects for the 2010's (Rural Studies) The City in History: Its Origins, Its

Transformations, and Its Prospects Toward a General Theory of Expertise: Prospects and Limits
Search for the Buried Bomber (Dark Prospects Book 1) Nuclear Energy: What Everyone Needs to
Know®

[Dmca](#)