

## 7

### Nuclear Power Reactors

As of 2000, there are 434 central station nuclear power reactors operating worldwide to produce 350,442 MWe of electrical power. Of this number, 252 are pressurized water reactors (PWRs), 92 are boiling water reactors (BWRs), 34 are gas-cooled reactors (GCRs) of all types, 39 are heavy water-cooled reactors of all types (mostly CANDUs), 15 are graphite-moderated light-water pressure tube reactors (RBMKs), and 2 are liquid-metal fast breeder reactors (LMFBRs). The general physics-related characteristics of such reactors are described in the following sections. To be quantitative, specific reactors that produce 900 to 1300 MWe (650 MWe in the case of CANDUs) were chosen, but it should be noted that reactors of each type can vary greatly in size and power output, so the numbers should be understood to be only representative. In addition to the central station power reactors mentioned above, there are more than 100 pressurized water naval propulsion reactors in the U.S. fleet (plus others in foreign fleets) and numerous research and special purpose reactors of various types worldwide.

#### 7.1

##### Pressurized Water Reactors

Pressurized water reactors (PWRs) were first developed in the United States based on experience from the naval reactor program. The first commercial electric power-producing unit started operation at Shippingport, Pennsylvania in 1957. The PWR is now widely distributed worldwide. The basic structure of the PWR core is the approximately 20 cm  $\times$  20 cm  $\times$  4 m high fuel assembly shown in Fig. 7.1, consisting of an array of zircaloy-clad  $\text{UO}_2$  fuel pins, or rods, of about 1 cm diameter. The enrichment varies from about 2 to 4% or more, depending on the burnup objective. A typical fuel assembly may consist of a 17  $\times$  17 array of fuel pins of about 1 cm diameter. The coolant flows in an open lattice structure which permits some flow mixing and is under sufficient pressure that no boiling occurs under normal operation.

Long-term reactivity control is provided by adjustment of the boric acid content in the coolant. The soluble poison concentration decreases with fuel burnup to compensate fuel reactivity loss and must be reduced to compensate  $^{135}\text{Xe}$  and

# Nuclear Reactor Physics Stacey Manual Solution

**American Nuclear Society**



## **Nuclear Reactor Physics Stacey Manual Solution:**

Large-Scale Scientific Computing Ivan Lirkov, Svetozar Margenov, 2018-01-10 This book constitutes the thoroughly refereed post conference proceedings of the 11th International Conference on Large Scale Scientific Computations LSSC 2017 held in Sozopol Bulgaria in June 2017 The 63 revised short papers together with 3 full papers presented were carefully reviewed and selected from 63 submissions The conference presents results from the following topics Hierarchical adaptive domain decomposition and local refinement methods Robust preconditioning algorithms Monte Carlo methods and algorithms Numerical linear algebra Control and optimization Parallel algorithms and performance analysis Large scale computations of environmental biomedical and engineering problems The chapter Parallel Aggregation Based on Compatible Weighted Matching for AMG is available open access under a CC BY 4.0 license Reactor Technology, 1969

**Numerical Analysis and Its Applications** Ivan Dimov, István Faragó, Lubin Vulkov, 2017-04-11 This book constitutes thoroughly revised selected papers of the 6th International Conference on Numerical Analysis and Its Applications NAA 2016 held in Lozenetz Bulgaria in June 2016 The 90 revised papers presented were carefully reviewed and selected from 98 submissions The conference offers a wide range of the following topics Numerical Modeling Numerical Stochastics Numerical Approximation and Computational Geometry Numerical Linear Algebra and Numerical Solution of Transcendental Equations Numerical Methods for Differential Equations High Performance Scientific Computing and also special topics such as Novel methods in computational finance based on the FP7 Marie Curie Action Project Multi ITN STRIKE Novel Methods in Computational Finance Grant Agreement Number 304617 Advanced numerical and applied studies of fractional differential equations *Power Reactor Technology and Reactor Fuel Processing*, 1968 Nuclear Power Plant Design and Analysis Codes Jun Wang, Xin Li, Chris Allison, Judy Hohorst, 2020-11-10 Nuclear Power Plant Design and Analysis Codes Development Validation and Application presents the latest research on the most widely used nuclear codes and the wealth of successful accomplishments which have been achieved over the past decades by experts in the field Editors Wang Li Allison and Hohorst and their team of authors provide readers with a comprehensive understanding of nuclear code development and how to apply it to their work and research to make their energy production more flexible economical reliable and safe Written in an accessible and practical way each chapter considers strengths and limitations data availability needs verification and validation methodologies and quality assurance guidelines to develop thorough and robust models and simulation tools both inside and outside a nuclear setting This book benefits those working in nuclear reactor physics and thermal hydraulics as well as those involved in nuclear reactor licensing It also provides early career researchers with a solid understanding of fundamental knowledge of mainstream nuclear modelling codes as well as the more experienced engineers seeking advanced information on the best solutions to suit their needs Captures important research conducted over last few decades by experts and allows new researchers and professionals to learn from the work of their

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