

Solution of the 3D Neutron Diffusion Benchmark by FEM

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Abstract. The objective is to analyze the neutron diffusion benchmark developed by the Atomic Energy Research community for verification of best-estimate neutronics codes. The 3D benchmark of Schulz models a VVER-1000 core in steady state. The assemblies are homogeneous, represented by given diffusion theory parameters. There are seven material compositions including four enrichments, burnable absorber, control rods and a reflector. The finite element method on tetrahedron computational grids is used to solve the three-dimensional neutron problem. The software has been developed using the engineering and scientific library FEniCS. The matrix spectral problem is solved using a scalable and flexible toolkit SLEPc. The solution accuracy of the benchmark is analyzed by condensing the computational grid and varying the degree of the finite elements.

1 Introduction

The physical processes in a nuclear reactor [1] depend on the distribution of the neutron flux, whose mathematical description is based on the neutron-transport equation [2, 3]. The equation, describing the process is of integro-differential form and the required distribution of neutrons flux depends on time, energy, spatial and angular variables. As a rule, simplified forms of the neutron transport equation are used for practical computations of nuclear reactors. The system of equations obtained by the multigroup diffusion approach is often used for reactor analysis [4, 5] and is applied in most engineering calculation codes.

The processes in a nuclear reactor are essentially non-stationary. The stationary state of neutron flux, which is related to the critical state of the reactor, is characterized by local balance between the neutron generation and absorption. This boundary state is usually described by the solution of a spectral problem (Lambda Modes problem, λ -eigenvalue problem) provided that the fundamental eigenvalue (the maximal eigenvalue) that is called k -effective of the reactor core, is equal to unity. In this case, the stationary neutron flux is a corresponding eigenfunction. Computations of k -effective of the reactor using the Lambda Modes problem are obligatory for reactor design calculations.

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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 Scientific and Technical Books and Serials in Print, 1989

Fundamentals of Nuclear Engineering Brent J. Lewis, E. Nihan Onder, Andrew A. Prudil, 2017-06-19 Fundamental of Nuclear Engineering is derived from over 25 years of teaching undergraduate and graduate courses on nuclear engineering The material has been extensively class tested and provides the most comprehensive textbook and reference on the fundamentals of nuclear engineering It includes a broad range of important areas in the nuclear engineering field nuclear and atomic theory nuclear reactor physics design control dynamics safety and thermal hydraulics nuclear fuel engineering and health physics radiation protection It also includes the latest information that is missing in traditional texts such as space radiation The aim of the book is to provide a source for upper level undergraduate and graduate students studying nuclear engineering *Books in Print Supplement*, 2002 **British Books in Print**, 1985

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operation of nuclear reactors and the fuel cycle will gain a thorough understanding of all elements of nuclear reactor physics thus enabling them to apply the analysis and solution methods provided to their own work and research This book looks to future reactors in development and analyzes their status and challenges before providing possible worked through solutions Cover image Kaiga Atomic Power Station Units 1 4 Karnataka India In 2018 Unit 1 of the Kaiga Station surpassed the world record of continuous operation at 962 days Image courtesy of DAE India Includes methods for solving neutron transport problems nuclear cross section data and solutions of transport theory Dedicates a chapter to reactor safety that covers mitigation probabilistic safety assessment and uncertainty analysis Covers experimental and operational physics with details on noise analysis and failed fuel detection

A Nodal Method for Multigroup, Multidimensional Nuclear Reactor Dynamics with Thermal-hydraulics Feedback Thuy Trong Le,1990 **INIS Atomindex** ,1977 **Computational Modeling of Time-resolved Fluorescence Transport in Turbid Media for Non-invasive Clinical Diagnostics** Karthik Vishwanath,2005 *A Differential Approach to Sensitivity Analysis of Transmutation Analysis Problems* Adimir dos Santos,1984 *Time Dependent Neutronics Studies in Inertial Confinement Fusion* Fred Beranek,1978 **Boiling Water Reactor In-core Probe Analysis** Mark Richard Eglin,1985 *Transactions of the American Nuclear Society* American Nuclear Society,1980 **Books in Print** ,1987 *Scientia Iranica* ,2007 *Computational Methods in Reactor Shielding* James Wood,2013-10-22 Computational Methods in Reactor Shielding deals with the mathematical processes involved in how to effectively control the dangerous effect of nuclear radiation Reactor shielding is considered an important aspect in the operation of reactor systems to ensure the safety of personnel and others that can be directly or indirectly affected Composed of seven chapters the book discusses ionizing radiation and how it aids in the control and containment of radioactive substances that are considered harmful to all living things The text also outlines the necessary radiation quantities and units that are needed for a systemic control of shielding and presents an examination of the main sources of nuclear radiation A discussion of the gamma photon cross sections and an introduction to BMIX a computer program used in illustrating a technique in identifying the gamma ray build up factor for a reactor shield are added The selection also discusses various mathematical representations and areas of shielding theory that are being used in radiation shielding The book is of great value to those involved in the development and implementation of systems to minimize and control the dangerous and lethal effect of radiation *Subject Guide to Books in Print* ,1996 *American Book Publishing Record* R.R. Bowker Company,1978 *American Book Publishing Record Cumulative, 1950-1977* R.R. Bowker Company. Department of Bibliography,1978

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