# 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,  $\lambda$ -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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#### **Table of Contents Solutions Manual For Duderstadt Hamilton**

- 1. Understanding the eBook Solutions Manual For Duderstadt Hamilton
  - The Rise of Digital Reading Solutions Manual For Duderstadt Hamilton
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Solutions Manual For Duderstadt Hamilton
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Solutions Manual For Duderstadt Hamilton
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Solutions Manual For Duderstadt Hamilton
  - Personalized Recommendations
  - Solutions Manual For Duderstadt Hamilton User Reviews and Ratings
  - Solutions Manual For Duderstadt Hamilton and Bestseller Lists

- 5. Accessing Solutions Manual For Duderstadt Hamilton Free and Paid eBooks
  - Solutions Manual For Duderstadt Hamilton Public Domain eBooks
  - Solutions Manual For Duderstadt Hamilton eBook Subscription Services
  - Solutions Manual For Duderstadt Hamilton Budget-Friendly Options
- 6. Navigating Solutions Manual For Duderstadt Hamilton eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Solutions Manual For Duderstadt Hamilton Compatibility with Devices
  - Solutions Manual For Duderstadt Hamilton Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solutions Manual For Duderstadt Hamilton
  - Highlighting and Note-Taking Solutions Manual For Duderstadt Hamilton
  - Interactive Elements Solutions Manual For Duderstadt Hamilton
- 8. Staying Engaged with Solutions Manual For Duderstadt Hamilton
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solutions Manual For Duderstadt Hamilton
- 9. Balancing eBooks and Physical Books Solutions Manual For Duderstadt Hamilton
  - ∘ Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solutions Manual For Duderstadt Hamilton
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Solutions Manual For Duderstadt Hamilton
  - Setting Reading Goals Solutions Manual For Duderstadt Hamilton
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solutions Manual For Duderstadt Hamilton
  - Fact-Checking eBook Content of Solutions Manual For Duderstadt Hamilton
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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