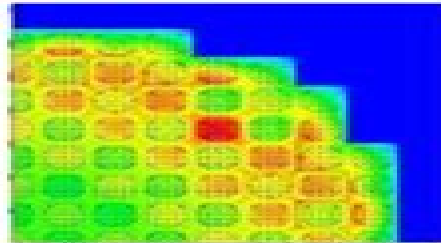


VERA Benchmark Problem

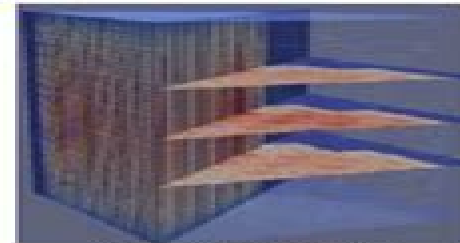
VERA serial problems is designed for the verification of high-fidelity numerical reactor methods based on the Watts Bar nuclear power plant. Problem 1-7 are calculated and compared to the KENO results, which demonstrates high accuracy of NECP-X.



Tian he computing platform



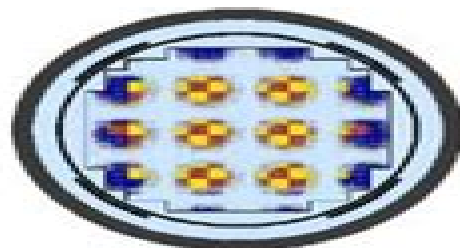
Radial power distribution



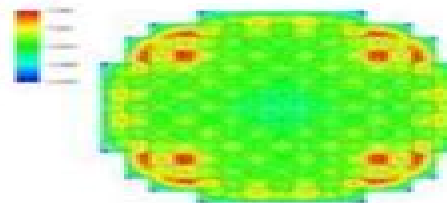
3D power distribution

BEAVRS Benchmark Problem

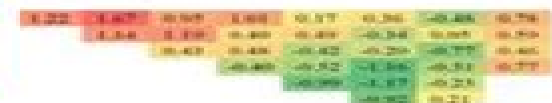
BEAVRS benchmark is published for the validation of PWR codes by MIT in 2013. 2D whole-core results of NECP-X are compared to OpenMC, which shows good agreement.



BEAVRS core configuration



Radial power distribution



Bias between NECP-X and OpenMC/%



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Numerical Reactor Calculations

Weston M. Jr. Stacey



Numerical Reactor Calculations:

Numerical Methods of Reactor Analysis Melville Jr. Clark, 2012-12-02 Nuclear Science and Technology Volume 3
Numerical Methods of Reactor Analysis presents the numerical analysis frequently used in the nuclear reactor field. This book discusses the numerical approximation for the multigroup diffusion method which results in simple algebraic equations. Organized into six chapters, this volume starts with an overview of the simplified formulation of linear algebra by defining the matrices and operations with matrices. This text then discusses the properties of special matrices and reviews the elementary properties of finite difference equations. Other chapters consider a variety of methods of obtaining numerical solutions to the approximating equations. The final chapter deals with the Monte Carlo method, which is a statistical method for solving statistical or deterministic problems. This book is a valuable resource for nuclear engineers. Students at the graduate level who had an introductory course in reactor physics and a basic course in differential equations will also find this book useful.

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Numerical reactor calculations Agence Internationale De L'Energie Atomique. Vienne. Conférence. 1972, 17-21 janvier. Vienne., 1972 *Numerical Reactor Calculations; Proceedings*, 1972 *Numerical Reactor Calculations: Proceedings of a Seminar... Held by the International Atomic Energy Agency in Vienna, 17-21 January, 1972* Vienna Seminar on numerical reactor calculations, 1972 **Proceedings series** Seminar on Numerical Reactor Calculations (1972, Vienna), 1972 Reactor Physics Calculations For Applications In Nuclear Technology - Proceedings Of The Workshop Dermott E Cullen, R Muranaka, J J Schmidt, 1991-01-30 This workshop was designed to meet the needs of those currently involved in or are planning a nuclear programme involving research and or power fission reactors. The workshop had a broad scope including not only fission reactor core calculations but also safety fuel management waste disposal reactor licensing. The lectures and computer exercises covered almost all aspects of the operation of fission reactors. This workshop introduced participants to the methods currently used in fission reactor calculations and to some computer codes in which these methods are used. **Reactor Technology**, 1970 **Numerical Reactor Calculations**, 1972 **Reactor Physics: Methods and Applications** Tengfei Zhang, Ding She, Shripad T. Revankar, Jun Wang, Qian Zhang, 2022-06-29 **Numerical methods for nuclear reactor calculations** Guriĭ Ivanovič Marčuk, 1966 Power Reactor Technology and Reactor Fuel Processing, 1971 **Numerical Reactor Calculations** International Atomic Energy Agency, 1972 Nuclear Science Abstracts, 1975-02 **Variational Methods in Nuclear Reactor Physics** Weston M. Jr. Stacey, 2012-12-02 Nuclear Science and Technology Volume 10 Variational Methods in Nuclear Reactor Physics presents the mathematical methods of a variational origin that are useful in obtaining approximate solutions to science and engineering problems. This book is composed of five chapters and begins with a discussion on the variation principles for physical systems described by both

inhomogeneous and homogeneous equations to develop a generalized perturbation theory Chapter 2 deals with the applications of variational estimates and generalized perturbation theory to neutron transport problems Chapter 3 covers the variation principles of the Lagrangian form that are constructed for a general linear time dependent process and for the specific case of the P1 neutron kinetics equations Chapter 4 presents the general procedure for the variational derivation of synthesis approximations and their applications to problems in reactor physics This chapter also examines the relationship of the spatial synthesis and finite element method and a hybrid method that combines features of both methods Chapter 5 describes the relationship of variation theory with the Hamilton Jacobi theory and with the optimization theories of the maximum principle and dynamic programming Nuclear physicists and researchers will find this text invaluable

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