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Description This reprinted edition of the popular textbook by John Lamarsh – a pioneer in nuclear reactor theory education – still serves as an excellent introduction to nuclear reactor theory. The book aims to provide students with an understanding of the fundamental physical principles underlying the operation of a nuclear reactor.

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(1-1) Introduction (1-1-1) Nuclear Reactor Theory and Reactor Analysis In Part 1 “Elements of Nuclear Reactor Theory”, we study an overview of nuclear reactors and how nuclear energy is extracted from reactors. Here, nuclear energy means the energy released in nuclear fission. This occurs because of the absorption of neutrons by fissile material.

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The process by which collision occurs can be described by an elegant mathematical framework called neutron slowing down theory. Nuclear reactors can use a wide variety of coolants, but not all coolants are suitable for all reactor types. The chapter shows that heavy water is an excellent neutron moderator and reactor coolant.

Introduction to Nuclear Reactor Physics

Description: Methodologies of neutron flux calculations, diffusion and slowing down theory, flux separation, material buckling, resonance absorption, Doppler effect, 2-group and multi-group theories, and reactivity balances for design and operation. Introduction to reactor kinetics, delayed neutrons, point reactor kinetics, transient behavior, load changes, reactivity feedback, and safety implications.

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Introduction to Nuclear Reactor Theory provides the students with the understanding of the phenomena that take place in fission reactors and with the understanding of the nuclear reactor design requirements. This course provides the students with tools for, and experience in simplified design and analysis of nuclear reactor cores.

NE 150 - University of California, Berkeley

Introduction to the Quantum Theory of Scattering (Academic, Pure and Applied Physics, Vol 26, 398 pages) L S Rodberg, R M Thaler Direct Nuclear Reactions (World Scientific Publishing, 396 pages) Norman K. Glendenning Introduction to Nuclear Reactions (Taylor & Francis, Graduate Student Series in Physics, 515 pages) C A Bertulani, P Danielewicz

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The book explains the most important physical concepts and mathematical methods commonly used in predicting the behavior of neutrons in nuclear reactors. It serves as an excellent introduction to reactor theory for physicists, mathematicians, and engineers and was written by two pioneers in the nuclear field.

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He was the author of many articles and several textbooks, including "Introduction to Nuclear Engineering" and "Nuclear Reactor Theory." Anthony Baratta received the B.A/B.S. degrees in physics/applied physics from Columbia University in 1968 and the M.S. and Ph.D. degrees in physics from Brown University in 1970 and 1978, respectively.

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