Reactor

U.S. Atomic Energy Commission

Fundamentals of Nuclear Reactor Physics Elmer E. Lewis, 2008-01-18 Fundamentals of Nuclear Reactor Physics offers a one-semester treatment of the essentials of how the fission nuclear reactor works, the various approaches to the design of reactors, and their safe and efficient operation. It provides a clear, general overview of atomic physics from the standpoint of reactor functionality and design, including the sequence of fission reactions and their energy release. It provides in-depth discussion of neutron reactions, including neutron kinetics and the neutron energy spectrum, as well as neutron spatial distribution. It includes ample worked-out examples and over 100 end-of-chapter problems. Engineering students will find this applications-oriented approach, with many worked-out examples, more accessible and more meaningful as they aspire to become future nuclear engineers. A clear, general overview of atomic physics from the standpoint of reactor functionality and design including the sequence of fission reactions and their energy release In-depth discussion of neutron reactor functionality and design, including the sequence of fission reactions and their energy release In-depth discussion of neutron reactor functionality and design, including the sequence of fission reactions and their energy release In-depth discussion of neutron reactions, including neutron kinetics and the neutron energy spectrum, as well as neutron spatial distribution. Manual

Nuclear Reactor Kinetics and Control Jeffery Lewins,2013-10-22 Nuclear Reactor Kinetics and Control highlights the application of classical control methods in the frequency space to the dynamic processes of a nuclear reactor. This book contains nine chapters and begins with an introduction to some important mathematical theories related to nuclear engineering, such as the Laplace and Fourier transforms, linear system stability, and the probability theory. The succeeding chapters deal with the frequency space of classical linear design. A chapter describes a stochastic model for the "lumped reactor and presents equations that measure the departure from the mean, as well as representative experiments or applications of the theory to neutron detection. The discussion then shifts to the aspects of reliability and its consequences for safety of nuclear reactors and some techniques for nonlinear studies centered on the use of the state space and its equations in the time domain. The final chapter also provide examples of intrinsic interest in nuclear engineering showing the programming involved and typical results, including the slower transients of xenon poisoning and fuel burn-up. This book is intended for nuclear engineers, physicists, applied mathematicians, and nuclear engineering undergraduate and postgraduate students.

Reactor Kinetics and Control Lynn E. Weaver, 1964

Nuclear Reactor Fuel Elements Albert R. Kaufmann, 1962

Nuclear Energy Materials And Reactors - Volume II Yassin A. Hassan,Robin A. Chaplin,2010-09-22 Nuclear Energy Materials and Reactors is a component of Encyclopedia of Energy Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Nuclear energy is a type of technology involving the controlled use of nuclear fission to release energy for work including propulsion, heat, and the generation of electricity. The theme on Nuclear Energy Materials and Reactors discusses: Fundamentals of Nuclear Energy; Nuclear Physics; Nuclear Interactions; Nuclear Reactor Theory; Nuclear Reactor Design; Nuclear Reactor Kinetics; Reactivity Changes; Nuclear Power Plants; Pressurized Water Reactors; Boiling Water Reactors; Pressurized Heavy Water Reactors; Heavy Water Light Water Reactors; Advanced Gas Cooled Reactors; Light Water Graphite Reactor Closed Cycle; Safety of Boiling Water Reactors; Supercritical Water-Cooled Nuclear Reactors: Review and Status; The Gas-Turbine Modular Helium Reactor; Application of Risk Assessment to Nuclear Power Plants; Production and Recycling Resources for Nuclear Fission. These two volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers.

Reactor and Fuel-processing Technology ,1967

The Nuclear Reactor Alan Salmon, 1964

How to Drive a Nuclear Reactor Colin Tucker,2020-01-25 Have you ever wondered how a nuclear power station works? This lively book will answer that question. It'll take you on a journey from the science behind nuclear reactors, through their start-up, operation and shutdown. Along the way it covers a bit of the engineering, reactor history, different kinds of reactors and what can go wrong with them. Much of this is seen from the viewpoint of a trainee operator on a Pressurised Water Reactor - the most common type of nuclear reactor in the world. Colin Tucker has spent the last thirty years keeping reactors safe. Join him on a tour that is the next best thing to driving a nuclear reactor yourself!

Hands-On Reactive Programming with Reactor Rahul Sharma,2018-09-29 Discover how project Reactor enhances the reactive programming paradigm and allows you to build scalable asynchronous applications Key FeaturesUse reactive APIs, Flux, and Mono to implement reactive extensionsCreate concurrent applications without the complexity of Java's concurrent APIUnderstand techniques to implement event-driven and reactive applicationsBook Description Reactor is an implementation of the Java 9 Reactive Streams specification, an API for asynchronous data processing. This specification is based on a reactive programming paradigm, enabling developers to build enterprise-grade, robust applications with reduced complexity and in less time. Hands-On Reactive Programming with Reactor shows you how Reactor works, as well as how to use it to develop reactive applications in Java. The book begins with the fundamentals of Reactor and the role it plays in building effective applications. You will learn how to build fully non-blocking applications and will later be guided by the Publisher and Subscriber APIs. You will gain an understanding how to use two reactive composable APIs, Flux and Mono, which are used extensively to implement Reactive Extensions. All of these components are combined using various operations to build a complete solution. In addition to this, you will get to grips with the Flow API and understand backpressure in order to control overruns. You will also study the use of Spring WebFlux, an extension of the Reactor framework for building microservices. By the end of the book, you will have gained enough confidence to build reactive and scalable microservices. What you will learnExplore benefits of the Reactive paradigm and the Reactive Streams APIDiscover the impact of Flux and Mono implications in ReactorExpand and repeat data in stream processingGet to grips with various types of processors and choose the best oneUnderstand how to map errors to make corrections easierCreate robust tests using testing utilities off

Reactor Operation J. Shaw, 2013-10-22 Reactor Operation covers the theoretical aspects and design information of nuclear reactors. This book is composed of nine chapters that also consider their control, calibration, and experimentation. The opening chapters present the general problems of reactor operation and the principles of reactor control and operation. The succeeding chapters deal with the instrumentation, start-up, precommissioning, and physical experiments of nuclear reactors. The remaining chapters are devoted to the control rod calibrations and temperature coefficient measurements in the reactor. These chapters also explore the fuel leak detection and fuel movement in the nuclear reactor. This book will prove useful to nuclear engineers, physicists, and undergraduate and postgraduate students.

Reactor Core Monitoring Mihály Makai, János Végh, 2017-05-17 This book presents a comprehensive overview of the computerized core monitoring techniques currently employed at pressurized water reactor (PWR) and boiling water reactor (BWR) nuclear power plants. It also offers a brief overview of the corresponding techniques at research and materials testing reactors. The book combines detailed descriptions of the theoretical background and fundamental underlying principles as well as the practical applications of core surveillance. It not only provides numerous industrial examples to illustrate how complex computerized systems are able to support the safe operation of nuclear reactors, but also outlines some new application areas that were made possible only by state-of-the-art computing resources. Thanks to its practical approach, it serves as a valuable and practical reference book for readers interested in the surveillance of nuclear reactors, ranging from undergraduate and postgraduate students to researchers and experts working at research reactors and nuclear power plants, as well as at nuclear regulatory authorities.

Reactor Technology Leonard E. Link, 1965

Light Water Reactor Safety B. Pershagen, M. Bowen, 2013-10-22 This book describes the principles and practices of reactor safety as applied to the design, regulation and operation of light water reactors, combining a historical approach with an up-to-date account of the safety, technology and operating experience of both pressurized water reactors and boiling water reactors. The introductory chapters set out the basic facts upon which the safety of light water reactors depend. The central section is devoted to the methods and results of safety analysis. The accidents at Three Mile Island and Chernobyl are reviewed and their implications for light water reactor safety are discussed. The concluding chapters examine selected safety issues and their resolution, and highlight results of reactor safety research. The book is amply illustrated, with numerous cross references and a comprehensive index.

NASA's Nuclear Frontier Mark D. Bowles, Robert S. Arrighi, 2004

Reactor Safeguards Charles R. Russell,2016-06-06 Reactor Safeguards focuses on the measures and approaches in the safeguard of reactors. The book first discusses the development of nuclear reactors, including the emergence of radiation hazards, construction of nuclear reactors in Chicago, and containment of reactors. The text also focuses on radioactive materials; reactor kinetics; and control and safety systems of reactors. The text discusses the containment of nuclear reactors. Topics include nuclear excursions; combustion of reactor materials; melting of reactor fuels; design of containment structures; and size of breaks or leaks in cooling

systems. The text also describes the dispersion of radioactive materials, including problems in operations, diffusion theory, and nomograms for graphical solutions. The book also highlights the possible damages that a nuclear reactor accident can produce. Considerations include the permissible dose of radiation, exposure to nuclear radiations, and evacuation from a contaminated area. The text is a valuable source of data for readers, engineers, and physicists who are responsible in hazard analysis and site selection.

Power Reactor Technology ,1957

Reactor Core Materials, 1958

The Clinch River Breeder Reactor United States. General Accounting Office, 1979

Civilian Power Reactor Program U.S. Atomic Energy Commission, 1960

Fast Breeder Reactors A. M. Judd,2013-10-22 Fast Breeder Reactors: An Engineering Introduction is an introductory text to fast breeder reactors and covers topics ranging from reactor physics and design to engineering and safety considerations. Reactor fuels, coolant circuits, steam plants, and control systems are also discussed. This book is comprised of five chapters and opens with a brief summary of the history of fast reactors, with emphasis on international and the prospect of making accessible enormous reserves of energy. The next chapter deals with the physics of fast reactors and considers calculation methods, flux distribution, breeding, control rods, shielding, and reactivity coefficients. The chemistry of fast reactor fuels is also considered, along with the engineering of the core of a power-producing fast reactor and of coolant circuits and steam plants. The final chapter examines aspects of reactor safety that are peculiar to sodium-cooled oxide-fueled fast reactors and describes the inherent features of such a reactor that make for safety, followed by an analysis of risks and some of the protective systems that can be used. This monograph will be of interest to nuclear scientists, physicists, and engineers.

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