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This volume provides nuclear engineers, plant designers and radiation physicists with a comprehensive overview of nuclear energy and its uses, and discusses potential problems and the outlook for the future. As well as functioning as a tool to train and educate future professionals, this book is expected to be helpful to scientists and engineers in non-nuclear but related fields. A new feature - Computer Exercises - has been added, intended to enhance the appreciation of effects, trends and magnitudes, although each type of program demands a minimum of expertise in computer programming. This book gathers selected papers from the Second International Symposium on Software Reliability, Industrial Safety, Cyber Security and Physical Protection of Nuclear Power Plant, held in Chengdu, China on August 23–25, 2017. The symposium provided a platform of technical exchange and experience sharing for a broad range of experts, scholars and nuclear power practitioners. The book reflects the state of the art and latest trends in nuclear instrumentation and control system technologies, as well as China's growing influence in this area. It offers a valuable resource for both practitioners and academics working in the field of nuclear instrumentation, control systems and other safety-critical systems, as well as nuclear power plant managers, public officials and regulatory authorities. At the onset of the 21st century, we are searching for reliable and sustainable energy sources that have a potential to support growing economies developing at accelerated growth rates, technology advances improving quality of life and becoming available to larger and larger populations. The quest for robust sustainable energy supplies meeting the above constraints leads us to the nuclear power technology. Today's nuclear reactors are safe and highly efficient energy systems that offer electricity and a multitude of co-generation energy products ranging from potable water to heat for industrial applications. Catastrophic earthquake and tsunami events in Japan resulted in the nuclear accident that forced us to rethink our approach to nuclear safety, requirements and facilitated growing interests in designs, which can withstand natural disasters and avoid catastrophic consequences. This book is one in a series of books on nuclear power published by InTech. It consists of ten chapters on system simulations and operational aspects. Our book does not aim at a complete coverage or a broad range. Instead, the included chapters shine light at existing challenges, solutions and approaches. Authors hope to share ideas and findings so that new ideas and directions can potentially be developed focusing on operational characteristics of nuclear power plants. The consistent thread throughout all chapters is the "system-thinking" approach synthesizing provided information and ideas. The book targets everyone with interests in system simulations and nuclear power operational aspects as its potential readership

groups - students, researchers and practitioners. This Safety Guide provides guidance on the collection of evidence and the preparation of documentation to be used to demonstrate the safety and reliability of the software for computer based systems important to safety in nuclear power plants for all phases of the system life-cycle. It recommends how to meet the requirements established in Safety Standards Series No. NS-R-1, The Safety of Nuclear Power Plants: Design (2000). The safe and economical operation of any nuclear power system relies to a great extent, on the success of the fuel and the materials of construction. During the lifetime of a nuclear power system which currently can be as long as 60 years, the materials are subject to high temperature, a corrosive environment, and damage from high-energy particles released during fission. The fuel which provides the power for the reactor has a much shorter life but is subject to the same types of harsh environments. This article reviews the environments in which fuels and materials from current and proposed nuclear systems operate and then describes how the creation of the Advanced Test Reactor National Scientific User Facility is allowing researchers from across the U.S. to test their ideas for improved fuels and materials. Thermal Engineering of Nuclear Power Stations: Balance-of-Plant Systems serves as a ready reference to better analyze common engineering challenges in the areas of turbine cycle analysis, thermodynamics, and heat transfer. The scope of the book is broad and comprehensive, encompassing the mechanical aspects of the entire nuclear station balance of plant from the source of the motive steam to the discharge and/or utilization of waste heat and beyond. Written for engineers in the fields of nuclear plant and thermal engineering, the book examines the daily, practical problems encountered by mechanical design, system, and maintenance engineers. It provides clear examples and solutions drawn from numerous case studies in actual, operating nuclear stations. Nuclear Systems, Volume I: Thermal Hydraulic Fundamentals, Third Edition, provides an in-depth introduction to nuclear power, focusing on thermal hydraulic design and analysis of the nuclear core and other key nuclear plant components. The authors stress the integration of fluid flow and heat transfer as applied to all power reactor types and energy source distribution. They cover nuclear reactor concepts and systems, including GEN III+, GEN IV, and SMR reactors and new power cycles. The text includes new chapter examples and problems using concept parameters, full-color text and art, computer programs, figure slides, and a solutions manual. FEATURES Rigorous coverage of nuclear power generation fundamentals Description and analysis of the latest nuclear power plant designs and technologies Extensive examples in each chapter to illustrate the analysis methods which have been presented New full-color art and text features to enhance the presentation of topics

Integration of fluid flow and heat transfer as applied to single- and two-phase coolants Readers will develop the knowledge and design skills needed to improve the next generation of nuclear reactors. Nuclear Energy: An Introduction to the Concepts, Systems, and Applications of Nuclear Processes, Eighth Edition, provides essential information on basic nuclear physics, systems and the applications of nuclear energy. It comprehensively covers Basic Concepts, Radiation and Its Uses, and Nuclear Power, providing students with a broad view of nuclear energy and science in a fast-paced format that features updated, timely content on topics of new and growing importance to current and future nuclear professionals, such as tritium-powered betavoltaic integrated circuit chips, the modulation of radioactive decay constant due to solar activity, Monte Carlo radiation transport calculations and accelerator-driven systems. This book is an essential resource for any first course on nuclear energy and systems. Contains coverage of timely topics, such as the connection between hydraulic fracturing (fracking), radioactivity and nuclear forensics Covers the TerraPower traveling wave reactor, the first ever FDA approved drug for the treatment of acute radiation injury, and more Describes the industry response to the Fukushima nuclear disaster, including FLEX in the U.S. Includes more worked examples and end of chapter exercises This work provides a basis for scoping calculations to determine the dynamic behavior - both linear and nonlinear - of BWRs. Additional work is now underway to establish the feasibility of routine operation of nuclear systems in the nonlinear (limit-cycle) regime. This volume is a collection of the papers presented at the International Seminar on Advanced Nuclear Energy Systems toward Zero Release of Radioactive Wastes, which was held in Japan in November 2000. Scientists and engineers working in academia, research organizations and industry came together to discuss the role and contributions of nuclear energy to the environmental issues in the new millennium. It provided a forum for open discussions about the pursuit of solutions for the reduction of nuclear wastes based on the accelerator and fusion technologies, in addition to the advanced fission technology to harmonize the nuclear energy systems with the global environment. It also promoted future international collaboration in the following research fields: the role of nuclear energy in the new millennium; waste management; transmutation of minor actinides and fission products; advanced fission systems, accelerator driven systems, fusion systems, nuclear database, and advanced nuclear fuel cycles for transmutation of wastes. Published originally as a special issue (volume 40/3-4) of the international journal Progress in Nuclear Energy. This book introduces readers to basic approaches in and principles of marine nuclear power design, including overall reactor design, in-core design, coolant systems and devices, I&C system design, safety system design, and dynamic analysis

assessment. It comprehensively reviews both the fundamentals of and latest trends in nuclear-powered devices, covering their entire lifespan, from design and testing to operation and decommissioning. Further, it explores in detail various real-world conditions in the marine context – such as insufficient space for equipment deployment and frequently changing operating conditions as well as swinging and tilting. Offering extensive information on the design and operation of marine nuclear power systems, the book is a valuable resource for researchers and professionals in the area of marine science and nuclear engineering, and graduate students intending to embark on a career in the field. The book has been developed in conjunction with NERS 462, a course offered every year to seniors and graduate students in the University of Michigan NERS program. The first half of the book covers the principles of risk analysis, the techniques used to develop and update a reliability data base, the reliability of multi-component systems, Markov methods used to analyze the unavailability of systems with repairs, fault trees and event trees used in probabilistic risk assessments (PRAs), and failure modes of systems. All of this material is general enough that it could be used in non-nuclear applications, although there is an emphasis placed on the analysis of nuclear systems. The second half of the book covers the safety analysis of nuclear energy systems, an analysis of major accidents and incidents that occurred in commercial nuclear plants, applications of PRA techniques to the safety analysis of nuclear power plants (focusing on a major PRA study for five nuclear power plants), practical PRA examples, and emerging techniques in the structure of dynamic event trees and fault trees that can provide a more realistic representation of complex sequences of events. The book concludes with a discussion on passive safety features of advanced nuclear energy systems under development and approaches taken for risk-informed regulations for nuclear plants. This book covers the fundamentals of thermodynamics required to understand electrical power generation systems, honing in on the application of these principles to nuclear reactor power systems. It includes all the necessary information regarding the fundamental laws to gain a complete understanding and apply them specifically to the challenges of operating nuclear plants. Beginning with definitions of thermodynamic variables such as temperature, pressure and specific volume, the book then explains the laws in detail, focusing on pivotal concepts such as enthalpy and entropy, irreversibility, availability, and Maxwell relations. Specific applications of the fundamentals to Brayton and Rankine cycles for power generation are considered in-depth, in support of the book's core goal- providing an examination of how the thermodynamic principles are applied to the design, operation and safety analysis of current and projected reactor systems. Detailed appendices cover metric and English system units and conversions, detailed

steam and gas tables, heat transfer properties, and nuclear reactor system descriptions. Nuclear Power Reactor Designs: Structures, Systems, and Components analyzes nuclear designs throughout history and explains how each of those has helped to shape and inform the nuclear reactor designs of today and the future. Focused on the structure, systems and relevant components of each reactor design, this book provides the readers with answers to key questions to help them understand the benefits of each design. Each reactor design is introduced, their origin defined, and the relevant research presented before an analysis of its successes, what was learned, and how research and technology advanced as a result are presented. Students, researchers and early career engineers will gain a solid understanding of how nuclear designs have evolved, and how they will continue to develop in the future. Nuclear Engineering: A Conceptual Introduction to Nuclear Power provides coverage of the introductory, salient principles of nuclear engineering in a comprehensive manner for those entering the profession at the end of their degree. The nuclear power industry is undergoing a renaissance because of the desire for low-carbon baseload electricity, the growing population, and environmental concerns about shale gas, so this book is a welcomed addition to the science. In addition, users will find a great deal of information on the change in the industry, along with other topical areas of interest that are uniquely covered. Intended for undergraduate students or early postgraduate students studying nuclear engineering, this new text will also be appealing to scientifically-literate non-experts wishing to be better informed about the 'nuclear option'. Presents a succinct and clear explanation of the key facts and concepts on how nuclear engineering power systems function and how their related fuel supply cycles operate Provides full coverage of the nuclear fuel cycle, including its scientific and historical basis Describes a comprehensive range of relevant reactor designs, from those that are defunct, current, and in plan/construction for the future, including SMRs and GenIV Summarizes all major accidents and their impact on the industry and society Heat Transfer and Fluid in Flow Nuclear Systems discusses topics that bridge the gap between the fundamental principles and the designed practices. The book is comprised of six chapters that cover analysis of the predicting thermal-hydraulics performance of large nuclear reactors and associated heat-exchangers or steam generators of various nuclear systems. Chapter 1 tackles the general considerations on thermal design and performance requirements of nuclear reactor cores. The second chapter deals with pressurized subcooled light water systems, and the third chapter covers boiling water reacto. This edition builds on earlier traditions in providing broad subject-area coverage, application of theory to practical aspects of commercial nuclear power, and use of instructional objectives. Like the first edition, it focuses on what

distinguishes nuclear engineering from the other engineering disciplines. However, this edition includes reorganization and overall update of descriptions of reactor designs and fuel-cycle steps, and more emphasis on reactor safety, especially related to technical and management lessons learned from the TMI-2 and Chernobyl - 4 accidents. As part of its duties in connection with space missions involving nuclear power sources, the Office of Nuclear Safety (ONS) of the Office of Assistant Secretary for Environmental Protection, Safety, and Emergency Preparedness has been assigned the task of reviewing the Overall Safety Manual (OSM) (memo from B.J. Rock to J.R. Maher, December 1, 1982). The OSM, dated July 1981 and in four volumes, was prepared by NUS Corporation, Rockville, Maryland, for the US Department of Energy. The OSM provides many of the technical models and much of the data which are used by (1) space launch contractors in safety analysis reports and (2) the broader Interagency Nuclear Safety Review Panel (INSRP) safety evaluation reports. If fhs interaction between the OSM, contractors, and INSRP is to work effectively, the OSM must be accurate, comprehensive, understandable, and usable. Nuclear Systems, Volume I: Thermal Hydraulic Fundamentals, Third Edition, provides an in-depth introduction to nuclear power, focusing on thermal hydraulic design and analysis of the nuclear core and other key nuclear plant components. The authors stress the integration of fluid flow and heat transfer as applied to all power reactor types and energy source distribution. They cover nuclear reactor concepts and systems, including GEN III+, GEN IV, and SMR reactors and new power cycles. The text includes new chapter examples and problems using concept parameters, full-color text and art, computer programs, figure slides, and a solutions manual. FEATURES Rigorous coverage of nuclear power generation fundamentals Description and analysis of the latest nuclear power plant designs and technologies Extensive examples in each chapter to illustrate the analysis methods which have been presented New full-color art and text features to enhance the presentation of topics Integration of fluid flow and heat transfer as applied to single- and two-phase coolants Readers will develop the knowledge and design skills needed to improve the next generation of nuclear reactors. This book provides advanced coverage of a wide variety of thermal fluid systems and technologies in nuclear power plants, including discussions of the latest reactor designs and their thermal/fluid technologies. Beyond the thermal hydraulic design and analysis of the core of a nuclear reactor, the book covers other components of nuclear power plants, such as the pressurizer, containment, and the entire primary coolant system. Placing more emphasis on the appropriate models for small-scale resolution of the velocity and temperature fields through computational fluid mechanics, the book shows how this enhances the accuracy of predicted

operating conditions in nuclear plants. It introduces considerations of the laws of scaling and uncertainty analysis, along with a wider coverage of the phenomena encountered during accidents. FEATURES Discusses fundamental ideas for various modeling approaches for the macro- and microscale flow conditions in reactors Covers specific design considerations, such as natural convection and core reliability Enables readers to better understand the importance of safety considerations in thermal engineering and analysis of modern nuclear plants Features end-of-chapter problems Includes a solutions manual for adopting instructors This book serves as a textbook for advanced undergraduate and graduate students taking courses in nuclear engineering and studying thermal/hydraulic systems in nuclear power plants. This book is a detailed introduction for laypersons to all aspects of nuclear technology. It begins with discussions of the underlying science; then it puts nuclear energy in context among other energy sources and as a carbon-free energy source; and finally it describes individual nuclear systems. A follow-up to the authors' Nuclear Systems Volume 1: Thermal Hydraulic Fundamentals, Second Edition, Nuclear Systems Volume 2: Elements of Thermal Hydraulic Design, Second Edition provides advanced coverage of a wide variety of thermal fluid systems and technologies in nuclear power plants. A major change is coverage of the latest reactor designs, and their thermal/fluid technologies. Volume 2, Second Edition covers a variety of nuclear power plant subsystems, as well as those related to the nuclear core. This expanded, revised, and updated fourth edition of Nuclear Energy maintains the tradition of providing clear and comprehensive coverage of all aspects of the subject, with emphasis on the explanation of trends and developments. As in earlier editions, the book is divided into three parts that achieve a natural flow of ideas: Basic Concepts, including the fundamentals of energy, particle interactions, fission, and fusion; Nuclear Systems, including accelerators, isotope separators, detectors, and nuclear reactors; and Nuclear Energy and Man, covering the many applications of radionuclides, radiation, and reactors, along with a discussion of wastes and weapons. A minimum of mathematical background is required, but there is ample opportunity to learn characteristic numbers through the illustrative calculations and the exercises. An updated Solution Manual is available to the instructor. A new feature to aid the student is a set of some 50 Computer Exercises, using a diskette of personal computer programs in BASIC and spreadsheet, supplied by the author at a nominal cost. The book is of principal value as an introduction to nuclear science and technology for early college students, but can be of benefit to science teachers and lecturers, nuclear utility trainees and engineers in other fields. Sustainable Nuclear Power provides non-nuclear engineers, scientists and energy planners with the necessary information to understand and utilize the major

advances in the field. The book demonstrates that nuclear fission technology has the abundance and attainability to provide centuries of safe power with minimal greenhouse gas generation. It also addresses the safety and disposal issues that have plagued the development of the nuclear power industry and scared planners and policy makers as well as the general public for more than two decades. No need for a background in nuclear science! This book guides engineers, scientists and energy professionals through a concise and easy-to-understand overview of key safety and sustainability issues affecting their work. Details the very latest information about today's safest and most energy-efficient reactor designs and reprocessing procedures. Brings to light the fears and hesitation of using nuclear energy and explains that technologies and procedures for safe production and processing are available today. This edition builds on earlier traditions in providing broad subject-area coverage, application of theory to practical aspects of commercial nuclear power, and use of instructional objectives. Like the first edition, it focuses on what distinguishes nuclear engineering from the other engineering disciplines. However, this edition includes reorganization and overall update of descriptions of reactor designs and fuel-cycle steps, and more emphasis on reactor safety, especially related to technical and management lessons learned from the TMI-2 and Chernobyl - 4 accidents. This book covers the entire spectrum of the science and technology of nuclear reactor systems, from underlying physics, to next generation system applications and beyond. Beginning with neutron physics background and modeling of transport and diffusion, this self-contained learning tool progresses step-by-step to discussions of reactor kinetics, dynamics, and stability that will be invaluable to anyone with a college-level mathematics background wishing to develop an understanding of nuclear power. From fuels and reactions to full systems and plants, the author provides a clear picture of how nuclear energy works, how it can be optimized for safety and efficiency, and why it is important to the future. Nuclear power is in the midst of a generational change—with new reactor designs, plant subsystems, fuel concepts, and other information that must be explained and explored—and after the 2011 Japan disaster, nuclear reactor technologies are, of course, front and center in the public eye. Written by leading experts from MIT, Nuclear Systems Volume I: Thermal Hydraulic Fundamentals, Second Edition provides an in-depth introduction to nuclear power, with a focus on thermal hydraulic design and analysis of the nuclear core. A close examination of new developments in nuclear systems, this book will help readers—particularly students—to develop the knowledge and design skills required to improve the next generation of nuclear reactors. Includes a CD-ROM with Extensive Tables for Computation Intended for experts and senior undergraduate/early-stage

graduate students, the material addresses: Different types of reactors Core and plant performance measures Fission energy generation and deposition Conservation equations Thermodynamics Fluid flow Heat transfer Imparting a wealth of knowledge, including their longtime experience with the safety aspects of nuclear installations, authors Todreas and Kazimi stress the integration of fluid flow and heat transfer, various reactor types, and energy source distribution. They cover recent nuclear reactor concepts and systems, including Generation III+ and IV reactors, as well as new power cycles. The book features new chapter problems and examples using concept parameters, and a solutions manual is available with qualifying course adoption. The main goal of the meeting was to facilitate and encourage the application of recent developments in the physical and mathematical sciences to the analysis of deterministic and stochastic processes in nuclear engineering. In contrast with the rapid growth (triggered by computer developments) of nonlinear analysis in other branches of the physical sciences, the theoretical analysis of nuclear reactors is still based on linearized models of the neutronics and thermal-hydraulic feedback loop, an approach that ignores some intrinsic nonlinearities of the real system. The subject of noise was added because of the importance of the noise technique in detecting abnormalities associated with perturbations of sufficient amplitude to generate nonlinear processes. Consequently the organizers of the meeting invited a group of leading researchers in the field of noise and nonlinear phenomena in nuclear systems to report on recent advances in their area of research. A selected subgroup of researchers in areas outside the reactor field provided enlightenment on new theoretical developments of immediate relevance to nuclear dynamics theory.

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