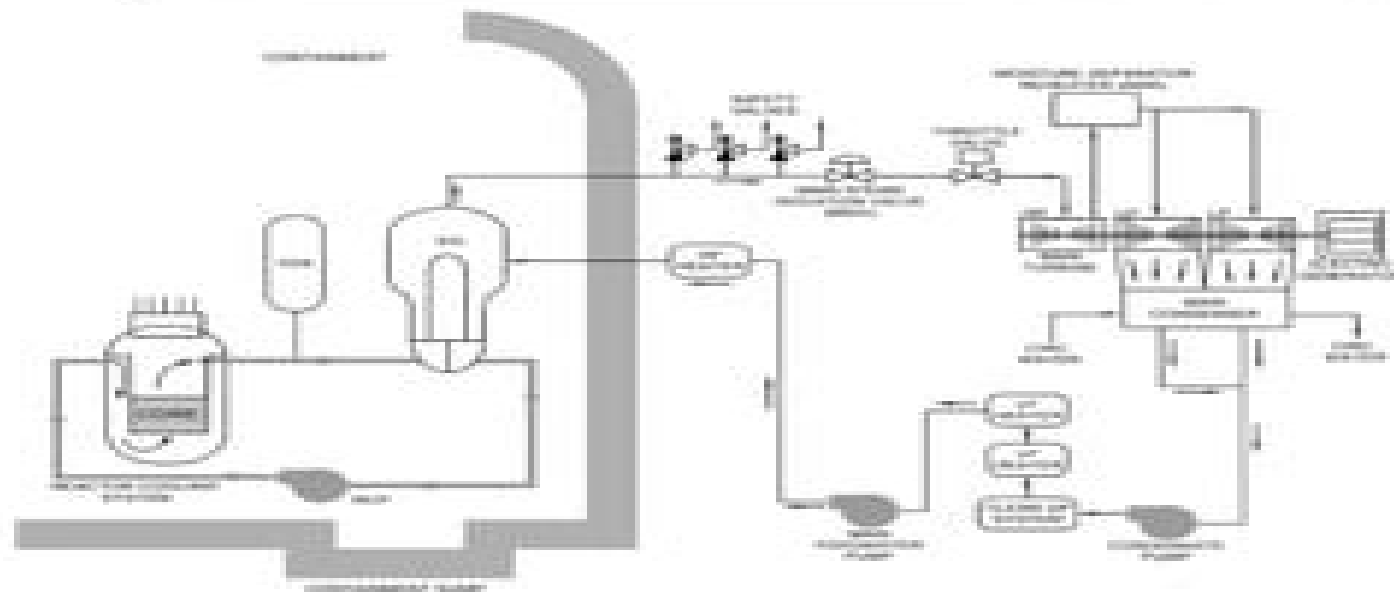




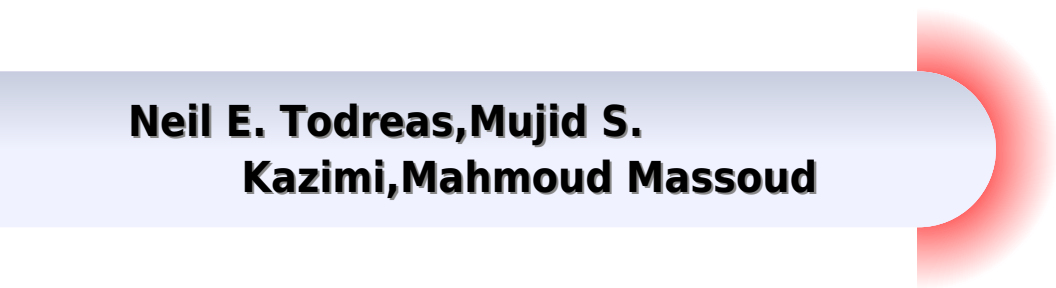
The major secondary systems of a pressurized water reactor are the main steam system and the condensate/coolant system. Since the primary and secondary systems are physically separated from each other (by the steam generator tubes), the secondary system will contain little or no radioactive material.

The main steam system starts at the outlet of the steam generator. The steam is routed to the high pressure main turbine. After passing through the high pressure turbine, the steam is piped to the moisture separator/reheaters (MSRs). In the MSRs, the steam is dried with moisture separators and reheated using either steam or a heat source. From the MSRs, the steam goes to the low pressure turbine. After passing through the low pressure turbine, the steam goes to the main condenser, which is operated at a vacuum to allow for the greatest removal of energy by the low pressure turbine. The steam is condensed into water by the flow of circulating water through the condenser tubes.

At this point, the condensate feedwater system starts. The condensate stream collects in the hotwell area of the main condenser. The condensate pumps take a suction on the hotwell to increase the pressure of the water. The condensate then passes through a cleanup system to remove any impurities in the water. This is necessary because the steam generator acts as a concentrator. If the impurities are not removed, they will be left in the steam generator after the steam forming process, and this could reduce the heat transfer capability of the steam generator and/or damage the steam generator tubes. The condensate then passes through some low pressure heaters. The temperature of the condensate is increased in the heaters by using steam from the low pressure turbine (extraction steam). The condensate flow then enters the suction of the main feedwater pumps, which increases the pressure of the water high enough to enter the steam generator. The feedwater now passes through a set of high pressure feedwater heaters, which are heated by extraction steam from the high pressure turbine (heating the feedwater helps to increase the efficiency of the plant). The flow rate of the feedwater is controlled as it enters the steam generators.

Usnrc Technical Training Center Reactor Concepts Manual

**Neil E. Todreas, Mujid S.
Kazimi, Mahmoud Massoud**



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Fundamentals of Nuclear Engineering Brent J. Lewis, E. Nihan Onder, Andrew A. Prudil, 2017-03-24 Fundamental of Nuclear Engineering is derived from over 25 years of teaching undergraduate and graduate courses on nuclear engineering. The material has been extensively class tested and provides the most comprehensive textbook and reference on the fundamentals of nuclear engineering. It includes a broad range of important areas in the nuclear engineering field: nuclear and atomic theory, nuclear reactor physics, design, control, dynamics, safety, and thermal hydraulics; nuclear fuel engineering and health physics; radiation protection. It also includes the latest information that is missing in traditional texts such as space radiation. The aim of the book is to provide a source for upper level undergraduate and graduate students studying nuclear engineering.

Energy Resources and Systems Tushar Ghosh, Mark Prelas, 2009-06-17 In the lifetimes of the authors the world and especially the United States have received three significant wake up calls on energy production and consumption. The first of these occurred on October 15, 1973 when the Yom Kippur War began with an attack by Syria and Egypt on Israel. The United States and many western countries supported Israel. Because of the western support of Israel, several Arab oil exporting nations imposed an oil embargo on the west. These nations withheld five million barrels of oil per day. Other countries made up about one million barrels of oil per day but the net loss of four million barrels of oil production per day extended through March of 1974. This represented 7% of the free world's i.e. excluding the USSR oil production. In 1972 the price of crude oil was about \$3.00 per barrel and by the end of 1974 the price of oil had risen by a factor of 4 to over \$12.00. This resulted in one of the worst recessions in the post World War II era. As a result there was a movement in the United States to become energy independent. At that time the United States imported about one third of its oil about five million barrels per day. After the embargo was lifted the world chose to ignore the wake up call and went on with business as usual.

Energy Resources and Systems Tushar K. Ghosh, Mark A. Prelas, 2009-06-04 In the lifetimes of the authors the world and especially the United States have received three significant wake up calls on energy production and consumption. The first of these occurred on October 15, 1973 when the Yom Kippur War began with an attack by Syria and Egypt on Israel. The United States and many western countries supported Israel. Because of the western support of Israel, several Arab oil exporting nations imposed an oil embargo on the west. These nations withheld five million barrels of oil per day. Other countries made up about one million barrels of oil per day but the net loss of four million barrels of oil production per day extended through March of 1974. This represented 7% of the free world's i.e. excluding the USSR oil production. In 1972 the price of crude oil was about \$3.00 per barrel and by the end of 1974 the price of oil had risen by a factor of 4 to over \$12.00. This resulted in one of the worst recessions in the post World War II era. As a result there was a movement in the United States to become energy independent. At that time the United States imported about one third of its oil about five million barrels per day. After the embargo was lifted the world chose to ignore the wake up call and went on with business as usual.

Atomic Accidents

James Maheffey, 2021-08-31 From the moment radiation was discovered in the late nineteenth century nuclear science has had a rich history of innovative scientific exploration and discovery coupled with mistakes accidents and downright disasters Mahaffey a long time advocate of continued nuclear research and nuclear energy looks at each incident in turn and analyzes what happened and why often discovering where scientists went wrong when analyzing past meltdowns Every incident has lead to new facets in understanding about the mighty atom and Mahaffey puts forth what the future should be for this final frontier of science that still holds so much promise

Radiation Protection at Light Water Reactors Robert Prince, 2012-03-28 This book is aimed at Health Physicists wishing to gain a better understanding of the principles and practices associated with a light water reactor LWR radiation protection program The role of key program elements is presented in sufficient detail to assist practicing radiation protection professionals in improving and strengthening their current program Details related to daily operation and discipline areas vital to maintaining an effective LWR radiation protection program are presented Programmatic areas and functions important in preventing responding to and minimizing radiological incidents and the importance of performing effective incident evaluations and investigations are described Elements that are integral in ensuring continuous program improvements are emphasized throughout the text

Nuclear Corrosion Science and Engineering Damien Feron, 2012-02-21 Corrosion of nuclear materials i e the interaction between these materials and their environments is a major issue for plant safety as well as for operation and economic competitiveness Understanding these corrosion mechanisms the systems and materials they affect and the methods to accurately measure their incidence is of critical importance to the nuclear industry Combining assessment techniques and analytical models into this understanding allows operators to predict the service life of corrosion affected nuclear plant materials and to apply the most appropriate maintenance and mitigation options to ensure safe long term operation This book critically reviews the fundamental corrosion mechanisms that affect nuclear power plants and facilities Initial sections introduce the complex field of nuclear corrosion science with detailed chapters on the different types of both aqueous and non aqueous corrosion mechanisms and the nuclear materials susceptible to attack from them This is complemented by reviews of monitoring and control methodologies as well as modelling and lifetime prediction approaches Given that corrosion is an applied science the final sections review corrosion issues across the range of current and next generation nuclear reactors and across such nuclear applications as fuel reprocessing facilities radioactive waste storage and geological disposal systems With its distinguished editor and international team of expert contributors Nuclear corrosion science and engineering is an invaluable reference for nuclear metallurgists materials scientists and engineers as well as nuclear facility operators regulators and consultants and researchers and academics in this field Comprehensively reviews the fundamental corrosion mechanisms that affect nuclear power plants and facilities Chapters assess different types of both aqueous and non aqueous corrosion mechanisms and the nuclear materials susceptible to attack from them Considers monitoring and control

methodologies as well as modelling and lifetime prediction approaches

Nuclear Radioactive Materials in the Oil and Gas Industry Khalid Alnabhani, Faisal Khan, 2019-08-29 Nuclear Radioactive Materials in the Oil and Gas Industry comprehensively discusses the TENORMs generated from various types of oil and gas processes and their associated adverse human health effects effective TENORM waste management strategies and the quantitative risk analysis The book thoroughly investigates current knowledge addressing the three main gaps identified in available studies 1 Exposure to radioactivity 2 High volume waste as a source of radiation exposure and 3 A lack of uniform international safety regulations This book offers researchers scientists and graduate and undergraduate students a comprehensive and well researched reference that covers fundamental concepts problem identification and solutions development It is an ideal comprehensive guideline for professionals involved in the oil and gas and nuclear industries who are concerned about radiological issues Demystifies NORM and TENORM concepts and redefines TENORM from technical and nuclear scientific perspectives Addresses statistically representative data of quantitative risk assessment and dynamic accident modeling Stresses the need for legislation and consistency of safety standards relating to radiological risks posed by TENORM on health and the environment

Desalination in Nuclear Power Plants Gustavo Alonso, Edmundo Del Valle, Jose Ramon Ramirez, 2020-04-07 Desalination in Nuclear Power Plants presents the latest research on a variety of nuclear desalination techniques for different nuclear reactor systems it includes also several aspects regarding competitiveness sustainability safety and licensing process Authors Alonso del Valle and Ramirez explore the possibilities of the cogeneration of water and electricity using a nuclear reactor This book consolidates the latest research to provide readers with a clear understanding of the advantages and disadvantages of the thermal membrane and hybrid desalination processes along with a comprehensive methodology to guide the reader on how to perform levelized cost analyses for water and electricity The conditions for the coupling of nuclear reactors and desalination plants are presented and techniques to maximize water and energy production and to reduce their corresponding costs are provided Mathematical modeling techniques for different components of the power plant are also included based on mass and energy state equations as well as different steam currents alternatives for coupling along with a proposed method for their evaluation

Nuclear Energy Encyclopedia Thomas B. Kingery, 2011-08-10 The A to Z reference resource for nuclear energy information A significant milestone in the history of nuclear technology Nuclear Energy Encyclopedia Science Technology and Applications is a comprehensive and authoritative reference guide written by a committee of the world's leading energy experts The encyclopedia is packed with cutting edge information about where nuclear energy science and technology came from where they are today and what the future may hold for this vital technology Filled with figures graphs diagrams formulas and photographs which accompany the short easily digestible entries the book is an accessible reference work for anyone with an interest in nuclear energy and includes coverage of safety and environmental issues that are particularly topical in light of the Fukushima Daiichi incident A definitive work on

all aspects of the world's energy supply the Nuclear Energy Encyclopedia brings together decades of knowledge about energy sources and technologies ranging from coal and oil to biofuels and wind and ultimately nuclear power **The Future of Energy Use** Phil O'Keefe, Nicola Pearsall, Geoff O'Brien, 2010-02-09 Following the success of its predecessor this second edition of The Future of Energy Use provides essential analysis of the use of different forms of energy and their environmental and social impacts It examines conventional nuclear and renewable sources and technologies using relevant case studies and providing a vital link between technology and related policy issues The new edition has been comprehensively developed and updated including new text diagrams and tables with entire new sections that reflect the significant changes that have occurred since the first edition New material includes a stronger focus on climate change policy and energy security a discussion of the long run marginal costs of oil coverage of the biofuels debate in both the developed and developing worlds an outline of developments in the built environment including transport issues and the relationship between behaviour and energy use It reviews policy shifts with relation to energy efficiency carbon capture and storage combined heat and power and combined cycle gas turbines There is new coverage of nuclear waste storage and proliferation and new material on microgeneration and biofuels as well as essential new information on carbon markets and the hydrogen economy The result is a unique introduction and guide to all the vital issues within energy for students academics and professionals new to the field

Risk Analysis and Control for Industrial Processes - Gas, Oil and Chemicals
Hans J Pasman, 2015-06-14 Risk Analysis and Control for Industrial Processes Gas Oil and Chemicals provides an analysis of current approaches for preventing disasters and gives readers an overview on which methods to adopt The book covers safety regulations history and trends industrial disasters safety problems safety tools and capital and operational costs versus the benefits of safety all supporting project decision processes Tools covered include present day array of risk assessment tools including HAZOP LOPA and ORA but also new approaches such as System Theoretic Process Analysis STPA Blended HAZID applications of Bayesian data analytics Bayesian networks and others The text is supported by valuable examples to help the reader achieve a greater understanding on how to perform safety analysis identify potential issues and predict the likelihood they may appear Presents new methods on how to identify hazards of low probability high consequence events Contains information on how to develop and install safeguards against such events with guidance on how to quantify risk and its uncertainty and how to make economic and societal decisions about risk Demonstrates key concepts through the use of examples and relevant case studies **The Case for Pandora** James M. Essig, Steve McCarter, 2017-01-12 This book is

about building craft for space travel space travel not in the far distant future but in the immediate future There is no question that we have the technology to build and power a large craft capable of traversing the galaxy and for now this book will focus on achieving the goal of intragalactic travel We will describe various methods of power generation and propulsion delineate the materials and technology for construction discuss the building of the spacecraft from the outside in and show what is

required to sustain life on the craft for extended periods of time While we will go into some detail on each of these pointing out advantages and disadvantages to components and methods this is not nor is it intended to be a highly technical book to be used by specialists Rather it is intended to inform the general readership about what is possible and perhaps what is not in building and operating spacecraft for long distance and long duration travel with current and available means

Handbook of Small Modular Nuclear Reactors Daniel T. Ingersoll, Mario D. Carelli, 2020-10-22 Handbook of Small Modular Nuclear Reactors Second Edition is a fully updated comprehensive reference on Small Modular Reactors SMRs which reflects the latest research and technological advances in the field from the last five years Editors Daniel T Ingersoll and Mario D Carelli along with their team of expert contributors combine their wealth of collective experience to update this comprehensive handbook that provides the reader with all required knowledge on SMRs expanding on the rapidly growing interest and development of SMRs around the globe This book begins with an introduction to SMRs for power generation an overview of international developments and an analysis of Integral Pressurized Water Reactors as a popular class of SMRs The second part of the book is dedicated to SMR technologies including physics components I C human system interfaces and safety aspects Part three discusses the implementation of SMRs covering economic factors construction methods hybrid energy systems and licensing considerations The fourth part of the book provides an in depth analysis of SMR R D and deployment of SMRs within eight countries including the United States Republic of Korea Russia China Argentina and Japan This edition includes brand new content on the United Kingdom and Canada where interests in SMRs have increased considerably since the first edition was published The final part of the book adds a new analysis of the global SMR market and concludes with a perspective on SMR benefits to developing economies This authoritative and practical handbook benefits engineers designers operators and regulators working in nuclear energy as well as academics and graduate students researching nuclear reactor technologies Presents the latest research on SMR technologies and global developments Includes new case study chapters on the United Kingdom and Canada and a chapter on global SMR markets Discusses new technologies such as floating SMRs and molten salt SMRs

Atomic Accidents Jim Mahaffey, 2014-02-04 A delightfully astute and entertaining history of the mishaps and meltdowns that have marked the path of scientific progress Kirkus Reviews starred review Radiation What could go wrong In short plenty From Marie Curie carrying around a vial of radium salt because she liked the pretty blue glow to the large scale disasters at Chernobyl and Fukushima dating back to the late nineteenth century nuclear science has had a rich history of innovative exploration and discovery coupled with mistakes accidents and downright disasters In this lively book long time advocate of continued nuclear research and nuclear energy James Mahaffey looks at each incident in turn and analyzes what happened and why often discovering where scientists went wrong when analyzing past meltdowns Every incident while taking its toll has led to new understanding of the mighty atom and the fascinating frontier of science that still holds both incredible risk and great promise

Physics with Many

Positrons Alfredo Dupasquier, Allen P. Mills, Roberto S. Brusa, 2010 With the exception of positron emission tomography PET the field of low energy positron science produces relatively few academic articles each year compared to more accessible fields Though much has been achieved since the publication of two related volumes earlier in this series Positron Solid State Physics 1981 and Positron Spectroscopy of Solids 1993 only the first steps have been made towards physics with many positrons physical situations where the interactions of positrons with positrons can be observed This 2009 Enrico Fermi School aims to stimulate the field o

The Fukushima Dai-Ichi Accident Peter Bernard Ladkin, Christoph Goeker, Bernd Sieker, 2013 In March 2011 following a strong earthquake a tsunami rolled over the protective seawall of the Fukushima Dai Ichi nuclear power plant in Japan and flooded it The cooling systems were taken out following a scenario described by a sociologist four years previously How is it that a sociologist predicted an accident mechanism that engineers had somehow missed System safety engineers and sociologists gathered together in Bielefeld Germany in August 2011 to discuss this and other phenomena This book is the result of that gathering The authors of the chapters in this book are truly outstanding scholars whose expertise intellectual prowess and wisdom about disasters such as that which occurred at Fukushima cannot be questioned Journal of Sociology Social Welfare September 2014 Series Engineering Ingenieurwissenschaften Vol 1 Subject Engineering Sociology

Nuclear Systems Volume II Neil E. Todreas, Mujid S. Kazimi, Mahmoud Massoud, 2021-12-13 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

Current Research in Nuclear Reactor Technology in Brazil and Worldwide Amir Mesquita, 2013-02-06 The aim of this book is to disseminate state of the art research and advances in the area of nuclear reactors technology The book was divided in two parts Topics discussed in the first part of this compilation include experimental investigation and computational validation of thermal stratification in PWR reactors piping systems new

methods in doppler broadening function calculation for nuclear reactors fuel temperature isothermal phase transformation of uranium zirconium niobium alloys for advanced nuclear fuel reactivity Monte Carlo burnup simulations of enriched gadolinium burnable poison for PWR fuel utilization of thermal analysis technique for study of uranium molybdenum fuel alloy probabilistic safety assessment applied to research reactors and a review on the state of the art and current trends of next generation reactors The second part includes thermal hydraulics study for a ultra high temperature reactor with packed sphere fuels benefits in using lead 208 coolant for fast reactors and accelerator driven systems nuclear power as a basis for future electricity production in the world Generation III and IV reactors nanostructural materials and shaped solids for improvement and energetic effectiveness of nuclear reactors safety and radioactive wastes multilateral nuclear approach to nuclear fuel cycles and a cold analysis of the Fukushima accident

Achieving Systems Safety Chris Dale, Tom Anderson, 2012-01-05 Achieving Systems Safety contains papers presented at the twentieth annual Safety critical Systems Symposium held in Bristol UK in February 2012 The Symposium is for engineers managers and academics in the field of system safety across all industry sectors so the papers making up this volume offer a wide ranging coverage of current safety topics and a blend of academic research and industrial experience They include both recent developments in the field and discussion of open issues that will shape future progress The topics covered by the 20 papers in this volume include vulnerabilities in global navigation satellite systems safety culture and community transport safety cyber attacks on safety critical systems improving our approach to systems safety accidents assessment validation and testing safety standards and safety levels The book will be of interest to both academics and practitioners working in the safety critical systems arena

Annual Report U.S. Nuclear Regulatory Commission, 1991

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