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Nuclear **Decommissioning**



Robots, AI and 3D models: How high-tech breakthroughs help nuclear decommissioning, pg 14

Decommissioning by design: How advanced reactors are designed with disposal in mind, pg 16

How the circular economy is transforming nuclear decommissioning, pg 18

Nuclear Decommissioning

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Nuclear Decommissioning:

Nuclear Decommissioning Michele Laraia, 2018-03-14 This book discusses the history of nuclear decommissioning as a science and industry. It explores the early little known period when the term decommissioning was not used in the nuclear context and the end of life operations of a nuclear facility were a low priority. It then describes the subsequent period when decommissioning was recognized as a separate phase of the nuclear lifecycle before bringing readers up to date with today's state of the art. The author addresses decommissioning as a mature industry in an era in which large commercial nuclear reactors and other fuel cycle installations have been fully dismantled and their sites returned to other uses. The book also looks at the birth, growth and maturity of decommissioning, focusing on how new issues emerged, how these were gradually addressed, and the lessons learned from them. Further, it examines the technologies and management advances in science and industry that followed these solutions. *Nuclear Decommissioning* is a point of reference for industry researchers and decommissioning practitioners looking to enrich their knowledge of decommissioning in recent decades as well as the modern industry. The book is also of interest to historians and students who wish to learn more about the history of nuclear decommissioning.

Nuclear Decommissioning Michele Laraia, 2012-02-21 Once a nuclear installation has reached the end of its safe and economical operational lifetime, the need for its decommissioning arises. Different strategies can be employed for nuclear decommissioning based on the evaluation of particular hazards and their attendant risks, as well as on the analysis of costs of clean up and waste management. This allows for decommissioning either soon after permanent shutdown or perhaps a long time later, the latter course allowing for radioactivity levels to drop in any activated or contaminated components. It is crucial for clear processes and best practices to be applied in decommissioning such installations and sites, particularly where any significant health and environmental risks exist. This book critically reviews the nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities. Part one focuses on the fundamental planning issues in starting a nuclear decommissioning process, from principles and safety regulations to financing and project management. Part two covers the execution phase of nuclear decommissioning projects, detailing processes and technologies such as dismantling, decontamination, and radioactive waste management, as well as environmental remediation, site clearance, and reuse. Finally, part three details international experience in the decommissioning of nuclear applications, including the main nuclear reactor types and nuclear fuel cycle facilities, as well as small nuclear facilities and legacy nuclear waste sites. Critically reviews nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities. Discusses the fundamental planning issues in starting a nuclear decommissioning process. Considers the execution phase of nuclear decommissioning projects, including dismantling, decontamination, and radioactive waste management, as well as environmental remediation, site clearance, and reuse.

Nuclear Decommissioning, Waste Management, and Environmental Site Remediation Colin Bayliss, Kevin

Langley,2003-10-10 Decommissioning nuclear facilities is a relatively new field which has developed rapidly in the last ten years It involves materials that may be highly radioactive and therefore require sophisticated methods of containment and remote handling The wastes arising from decommissioning are hazardous and have to be stored or disposed of safely in order to protect the environment and future generations Nuclear decommissioning work must be carried out to the highest possible standards to protect workers the general public and the environment This book describes the techniques used for dismantling redundant nuclear facilities the safe storage of radioactive wastes and the restoration of nuclear licensed sites Describes the techniques used for dismantling nuclear facilities safe storage of radioactive wastes and the restoration of nuclear licensed facilities Provides the reader with decommissioning experience accumulated over 15 years by UKAEA Contains valuable information to personnel new to decommissioning and waste management **Advances and**

Innovations in Nuclear Decommissioning Michele Laraia,2017-06-12 Advances and Innovations in Nuclear Decommissioning is an essential resource for industry professionals and academics interested in acquiring the most up to date information on the current state of nuclear decommissioning Written and edited by the world s leading experts this book considers lessons learned and new innovations in the field Edited by Dr Laraia it is the perfect companion to his 2012 book Nuclear Decommissioning which critically reviews the nuclear decommissioning processes and technologies applicable to nuclear power plants and other civilian nuclear facilities Where the earlier book covers the basics of decommissioning this new book brings you up to date with new areas of interest and approaches innovative technologies and lessons learned by both the nuclear and non nuclear decommissioning sectors Focuses on new aspects trends and innovative technologies Includes content on decommissioning after a severe accident including the use of robotics Brings together information from around the world and considers the lessons learned from the non nuclear sector as well **Decommissioning** Cynthia

Pollock Shea,1986 The processes and associated dilemmas of nuclear power plant decommissioning are reviewed in this publication Decommissioning involves the clearing up and disposal of a retired nuclear plant and its equipment of such a way as to safeguard the public from the dangers of radioactivity Related problem areas are identified and include 1 closure methods discussing the options of decontamination and dismantlement storage and reaction of a permanent tomb 2 high level waste management identifying spent fuel removal and disposal problems 3 retired reactor disposal citing examples of waste management systems employed in the United States and in Europe 4 economics providing cost estimates for major expense items 5 savings mechanisms proposing efforts to offset future decommissioning costs and 6 long term strategies urging the need for safe disposal and decommissioning research and development programs ML Nuclear

Decommissioning Case Studies Michele Laraia,2021-02-09 Nuclear Decommissioning Case Studies Accidental Impacts on Workers the Environment and the Public Volume One presents a collection of international case studies that show impacts on workers the public and the environment Author Michele Laraia describes typical stages of decommissioning such as

categorization hazard and risk analysis and the risks and impacts involved at each stage Each case is introduced before discussing its impacts solutions analysis and lessons learned This book uniquely collects categorizes and compares radiological and non radiological accidents incidents and near misses which will be of great value to practitioners in industry and authorities developing nuclear programs Finally this book instructs readers on important prevention mitigation and control measures to create sustainable safe nuclear facilities Includes various case studies and analyses on the impact of nuclear decommissioning on environmental sustainability workers and the public Highlights the need of ensuring sustainability plans at the beginning of a nuclear project and informs decision makers on how to select the best options Guides the reader through a systematic analysis of the likelihood of incidents and how to take measures against them

Nuclear Decommissioning Case Studies Michele Laraia, 2022-01-28 Nuclear Decommissioning Case Studies Volume Three The People Side presents a selection of global case studies on different aspects of Nuclear Decommissioning This volume focuses on the people side of nuclear decommissioning including stakeholder impacts public relations and workforce factors It presents a selection of case studies on stakeholders socioeconomics and human factors providing readers with a guide and information to deal with common often contentious challenges The events covered in this publication range from change management stakeholder motivation involvement and leadership adequacies Decommissioning experts including regulators operators waste managers researchers and academics will find this book to be suitable supplementary material to Michele Laraia's reference works on the theory and applications of nuclear decommissioning Alongside the case studies books in this series readers will obtain an understanding of stakeholder socioeconomic and people related case studies what happened and what we can learn from them Presents a selection of global case studies that focus on the people side of nuclear decommissioning specifically workforce and public impacts stakeholder management and human factors Highlights important sustainability and socioeconomic factors Assists the reader in developing robust people related plans and strategies based on experience and lessons learned *Nuclear Decommissioning Case Studies* Michele Laraia, 2021-06-24

Nuclear Decommissioning Case Studies Policies Strategies Planning and Knowledge Management focuses on policy strategy planning and knowledge management in nuclear decommissioning offering readers guidance on events that occur in early stages of the lifecycle The book helps readers plan in advance to avoid and reduce schedule delays and cost overruns to ensure a smooth safe and successful decommissioning Events covered in this book range from top level conception to strategy selection the drafting of procedures and the sharing of best practices Alongside the other case study books in this series readers will obtain an understanding of various key points and lessons learned Decommissioning experts including regulators operators waste managers researchers and academics will find this book to be suitable supplementary material to Michele Laraia's reference works on the theory and applications of nuclear decommissioning Presents a selection of global case studies that focus on the early stages of nuclear decommissioning Highlights the need to ensure sustainability plans are

in place at the beginning of a nuclear project Informs decision makers on selecting the best options Assists the reader in setting clear plans and strategies to avoid schedule delays and cost overruns

Nuclear Decommissioning Case Studies: Organization and Management, Economics, and Staying in Business Michele Laraia, 2023-01-11 Nuclear Decommissioning Case Studies Organization and Management Economics and Staying in Business is the fifth volume in Michele Laraia's series which presents a selection of global case studies on different aspects of nuclear decommissioning This volume focuses on organization economics and performance experience offering the reader guidance on project management staffing costs and funding and training It guides those responsible for the planning and implementation of nuclear decommissioning to ensure thorough and reliable applications Decommissioning experts including regulators operating organizations waste managers researchers and academics will find this book to be suitable supplementary material to reference works on the theory and applications of nuclear decommissioning Readers will obtain an understanding of many key case studies including what happened and what they can learn from the events quoted to help supplement solidify and strengthen their understanding of the topic Presents a selection of global case studies which focus on organization economics and performance of nuclear decommissioning in relation to project and industry sustainability with a focus on management funding and training aspects Includes 100 case studies on project management costs and funding and teaching and learning Based on experience and lessons learned assists the reader in developing and implementing decommissioning plans while ensuring the availability of technical financial and human resources at all times

Nuclear Decommissioning and Society Martin J. Pasqualetti, 2019-03-28 Originally published in 1990 This book argues that a better understanding of the social impact of decommissioning in areas such as jobs waste economics opinion law public policy land use and legacies is vital to the successful application of any technical solution The issues raised are divided into three areas which deal with those problems that have already been recognized the questions that decommissioning itself will raise and those that may result from likely future developments The book aims to initiate a process of appraisal by examining several of the more obvious social ties to decommissioning

Decommissioning of Nuclear Generating Facilities Maine. Legislature. Joint Select Committee on Decommissioning of Nuclear Generating Facilities, 1981

Planning, Managing and Organizing the Decommissioning of Nuclear Facilities International Atomic Energy Agency, 2004 Explores the development and improvement of decommissioning planning and management techniques with a focus on organisational aspects reducing the duplication of efforts by different parties through transfer of experience and know how and providing useful results for those Member States implementing decommissioning projects

Nuclear Decommissioning Case Studies, 2021

Income Tax Regulations, Final and Proposed Under Internal Revenue Code Commerce Clearing House, 1991

Internal Revenue Bulletin United States. Internal Revenue Service, 1993

Disarmament and Decommissioning in the Nuclear Domain Jean-Claude Amiard, 2021-09-15 Following the acquisition of the atomic bomb by five states the United Nations began

drafting several treaties to limit nuclear proliferation These efforts failed as four more states also acquired nuclear weapons In a similar vein an attempt to limit atomic weapons primarily within the two superpowers was initiated While the number of weapons has decreased the new bombs now being manufactured are more powerful and more precise negating any reduction in numbers In the field of civil nuclear use all nuclear facilities reactors factories etc have a limited lifespan Once a plant is permanently shut down these facilities must be decommissioned and dismantled These operations are difficult time consuming and costly In addition decommissioning generates large volumes of radioactive waste of various categories including long lived and high activity waste Risks to the environment and to health are not negligible during decommissioning The International Atomic Energy Agency IAEA and the Nuclear Energy Agency NEA of the Organisation for Economic Co operation and Development OECD have produced numerous publications with recommendations Each state has its own decommissioning strategy immediate or delayed and final plan for the site whether it be returning it to greenfield status or obtaining a nuclear site license with centuries long monitoring

Code of Federal Regulations ,2003 **The Code of Federal Regulations of the United States of America** ,2002 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government *Federal Register* ,1992-12 **Code of Federal Regulations** United States. Internal Revenue Service,2013 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of April 1 with ancillaries

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