



# Decommissioning Handbook

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**U.S. Department of Energy  
Office of Environmental Restoration**



# The Decommissioning Handbook

**Anthony S. Fauci**

## **The Decommissioning Handbook:**

**The Decommissioning Handbook** Anibal Taboas,A. Alan Moghissi,Thomas S. LaGuardia,2004      Decommissioning Handbook ,2005 The Decommissioning Handbook is a technical guide for the decommissioning of nuclear facilities The decommissioning of a nuclear facility involves the removal of the radioactive and for practical reasons hazardous materials to enable the facility to be released and not represent a further risk to human health and the environment This handbook identifies and technologies and techniques that will accomplish these objectives The emphasis in this handbook is on characterization waste treatment decontamination dismantling segmenting demolition and remote technologies Other aspects that are discussed in some detail include the regulations governing decommissioning worker and environmental protection and packaging and transportation of the waste materials The handbook describes in general terms the overall decommissioning project including planning cost estimating and operating practices that would ease preparation of the Decommissioning Plan and the decommissioning itself The reader is referred to other documents for more detailed information This Decommissioning Handbook has been prepared by Enserch Environmental Corporation for the US Department of Energy and is a complete restructuring of the original handbook developed in 1980 by Nuclear Energy Services The significant changes between the two documents are the addition of current and the deletion of obsolete technologies and the addition of chapters on project planning and the Decommissioning Plan regulatory requirements characterization remote technology and packaging and transportation of the waste materials      **Decommissioning Handbook** Enserch Environmental Corporation,United States. Department of Energy. Office of Environmental Restoration,1994      **Nuclear Facility Decommissioning and Site Remedial Actions** ,1980      **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 particular 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

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## **Table of Contents The Decommissioning Handbook**

1. Understanding the eBook The Decommissioning Handbook
  - The Rise of Digital Reading The Decommissioning Handbook
  - Advantages of eBooks Over Traditional Books
2. Identifying The Decommissioning Handbook
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an The Decommissioning Handbook
  - User-Friendly Interface
4. Exploring eBook Recommendations from The Decommissioning Handbook
  - Personalized Recommendations
  - The Decommissioning Handbook User Reviews and Ratings
  - The Decommissioning Handbook and Bestseller Lists
5. Accessing The Decommissioning Handbook Free and Paid eBooks
  - The Decommissioning Handbook Public Domain eBooks
  - The Decommissioning Handbook eBook Subscription Services
  - The Decommissioning Handbook Budget-Friendly Options
6. Navigating The Decommissioning Handbook eBook Formats

- ePub, PDF, MOBI, and More
- The Decommissioning Handbook Compatibility with Devices
- The Decommissioning Handbook Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of The Decommissioning Handbook
- Highlighting and Note-Taking The Decommissioning Handbook
- Interactive Elements The Decommissioning Handbook

8. Staying Engaged with The Decommissioning Handbook

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers The Decommissioning Handbook

9. Balancing eBooks and Physical Books The Decommissioning Handbook

- Benefits of a Digital Library
- Creating a Diverse Reading Collection The Decommissioning Handbook

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine The Decommissioning Handbook

- Setting Reading Goals The Decommissioning Handbook
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of The Decommissioning Handbook

- Fact-Checking eBook Content of The Decommissioning Handbook
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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