



# Environmental Remediation and Restoration of Contaminated Nuclear and Norm Sites (Woodhead Publishing Series in Energy)

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**Environmental Remediation and Restoration of Contaminated Nuclear and Norm Sites (Woodhead Publishing Series in Energy)** From Woodhead Publishing

Nuclear sites become contaminated with radionuclides due to accidents and activities carried out without due consideration for the environment. Naturally-occurring radioactive materials (NORM) released by industrial processes such as coal power production and fertilizer manufacture may also require clean-up. Environmental remediation and restoration aim to reduce exposure to radiation from contaminated soil or groundwater. This book provides a comprehensive overview of this area. Part 1 provides an introduction to the different types of contaminated site and their characteristics. Part 2 addresses environmental restoration frameworks and processes. Part 3 then reviews different remediation techniques and methods of waste disposal.

- Explores types and characteristics of contaminated nuclear and NORM sites
- Provides an in depth guide to environmental restoration frameworks and processes including stakeholder involvement, risk assessment and cost-benefit analysis in the remediation and restoration of contaminated nuclear and NORM sites
- Offers coverage of remediation techniques and waste disposal from electrokinetic remediation to in situ and ex situ bioremediation of radionuclides contaminated soils

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### **Editorial Review**

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Nuclear sites become contaminated with radionuclides due to accidents and activities carried out without due consideration for the environment. Naturally occurring radioactive materials (NORM) released by industrial processes such as coal power production and fertilizer manufacture may also require clean-up.

Environmental remediation and restoration aim to reduce exposure to radiation from contaminated soil or groundwater. *Environmental Remediation and Restoration of Contaminated Nuclear and NORM Sites* provides a comprehensive overview of this area.

Part One provides an introduction to the different types of contaminated site and their characteristics. The opening section explores radioactive contamination and the impacts of waste from nuclear and conventional power plants, as well as radionuclide behavior in the natural environment. Part Two addresses environmental restoration frameworks and processes. Chapters include stakeholder involvement, international guidance and risk assessment in, and for, the restoration of contaminated nuclear and NORM sites. The final section presents expert analysis of remediation techniques and waste disposal.

*Environmental Remediation and Restoration of Contaminated Nuclear and NORM Sites* is a key reference work for environmental technologists, consultants and academics specializing in the remediation of contaminated nuclear sites.

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About the Author

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