

1. Record Nr.	UNINA9910842494803321
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Titolo	Liquid Radioactive Waste Treatment: Ukrainian Context [[electronic resource]] : LWRT 2022 // edited by Yuriy Zabulonov, Igor Peer, Mark Zheleznyak
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-55068-4
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (166 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 469
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Disciplina	628 660.6
Soggetti	Environmental engineering Biotechnology Bioremediation Refuse and refuse disposal Sustainability Environmental Engineering/Biotechnology Waste Management/Waste Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Comparative Legal Analysis of Safe Handling of Liquid Radioactive Waste in Ukraine and Most EU Countries -- Liquid Radionuclide Waste Treatment at Fukushima Daiichi NPP Site: A Brief Review of Environmental Impacts -- Geopolymer-Based Mineral Mixtures for Fire and Heating Protection of Concrete and Steel Products of Nuclear Power Plants -- Calculation of Enclosures of Defence Structures Based on the Quasi-static Method -- Research of Processes Sedimentation Sludge Radioactive Waters and the Improvement of Treatment Technology -- Management of Radioactively Contaminated Water at the Shelter Object of Chernobyl NPP -- Restoration of Roofing and Slabs of Buildings Damaged as a Result of Military Operations in Ukraine -- Study of Mechanical Properties of Shipbuilding Pipe Steels for Cooling Systems of Long-term Operation in a Wide Range of Sub-zero Temperatures -- The Research of the Nature of Surface Compaction of Polymer Concrete

by a Vibration Working Body with Electric Drive -- The Scheme for Optimizing the Liquid Radioactive Waste Management of Ukrainian NPPs -- Trends of Development of Combined Steel Trusses of the New Generation -- Reconstruction of Reinforced Concrete Pylons and Reinforcement with Metal Cages after Damage Caused by Military Operations -- A complex Method for Purification of Radioactively Contaminated Waters the Object «Ukryttya» of the Chernobyl Nuclear Power Plant -- New Sorbents and Their Application for Deactivation of Liquid Radioactive Waste -- Application of the Latest Design of Combined Adsorber-Settler Structure in the Purification (Deactivation) of Liquid Radioactive Wastes (LRW) -- On the Creation of a Modern System for Handling Liquid Radioactive Waste at Nuclear Power Plants in Ukraine. Conditioning of Liquid Radioactive Waste -- .

Sommario/riassunto

This book presents the latest scientific advancements and innovative R&D solutions for the treatment of liquid radioactive waste in the context of practical threats in Ukraine. It includes research and engineering insights from the International Conference “Liquid Radioactive Waste Treatment: Ukrainian Context” (LWRT 2022), which was held in Kyiv, Ukraine on June 30, 2022. This publication covers a wide range of topics related to the treatment and management of radioactive waste, with a particular emphasis on safety considerations. The included articles also explore various aspects of environmental engineering and innovative R&D solutions, as well as the sustainability challenges associated with radioactive waste in the context of postwar reconstruction efforts. The contributions featured in this publication were selected through a rigorous international peer-review process. The carefully curated collection of articles showcases a diverse range of exciting ideas, poised to inspire novel research directions and stimulate interdisciplinary collaborations.
