

1. Record Nr.	UNINA9911035057003321
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Titolo	Sustainable Waste Management Practices, Volume 2 : Sustainable Waste Management with Special Focus on Circular Economy // edited by M. Mansoor Ahammed, Mukesh Khare
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819514427 9789819514410
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (500 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 732
Altri autori (Persone)	KhareMukesh
Disciplina	624
Soggetti	Civil engineering Environmental engineering Environmental protection Refuse and refuse disposal Sustainable architecture Civil Engineering Environmental Civil Engineering Soil and Water Protection Disposal Technology and Management Sustainable Architecture/Green Buildings
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Simulation and Optimization of Cumene Production Process Using DWSIM Software -- Automating Sustainable Growth and Revolutionizing Hydroponic Farming -- Life Cycle Inventory of Residential Buildings for Cradle to Grave Approach -- Comprehensive Assessment of Carbon Footprints in Construction Logistics: Methodologies, Challenges, and Sustainable Reduction Strategies -- Thermo-Chemical Conversion of Sewage Sludge in a Fluidized Bed Reactor: A Sustainable Approach for Waste to Energy -- Mobile Air Quality Monitoring of Vatva GIDC and Naroda GIDC -- A Comparative Study on Air Quality Index Prediction Using Machine Learning and Hybrid Deep Learning Models -- Comprehensive Analysis of Particulate Matter Emissions and

Meteorological Influences in the Stone Carving Industry -- Statistical Analysis of Air Pollutants and Meteorological Interactions in Kamptee, Nagpur, India -- Enhancing Tmrt Predictions with Machine Learning: Combining Field Data and ENVI-Met Simulations -- Enhancing Air Quality in Dhule City: Monitoring Dust Levels and Strategies for Reduction -- Assessment of Urban Noise Pollution and Its Multifaceted Health Impacts: An Exploratory Factor Approach -- Monitoring and Mapping of Noise Levels at Sensitive Areas of Jawaharlal Nehru Medical College and Hospital in Aligarh Smart City -- From Data to Decisions: A Comprehensive Assessment of Machine Learning Techniques for Air Quality Monitoring.

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**Sommario/riassunto**

This book is a proceedings of a conference “International Conference on Environmental Science and Engineering” to be held in Surat during December 2024. The theme of the conference include Pollution Modelling Sustainable Development and SDGs Climate Chemistry and Climate Change Environmental, Social and Governance Waste Characterization and Treatment Circular Economy and Environmental Impacts Control Strategies for Water, Waste, Air and Noise Application of AI/ML in Environmental Engineering Air, Water and Noise—Quality Monitoring and Measurement Techniques.

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