

1. Record Nr.	UNINA9911015627703321
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Titolo	A Vision for Environmental Sustainability: Overcoming Waste Management Challenges in Developing Countries / / edited by Ashootosh Mandpe, Sonam Paliya, Maulin P. Shah
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031892301 9783031892295
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (545 pages)
Collana	Environmental Science and Engineering, , 1863-5539
Altri autori (Persone)	PaliyaSonam ShahMaulin P
Disciplina	363.728 628.4
Soggetti	Refuse and refuse disposal Energy policy Public health Psychology Waste Management/Waste Technology Energy Policy, Economics and Management Public Health Behavioral Sciences and Psychology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Municipal Solid Waste Management -- E-waste Management -- Plastic Waste Management -- Biomedical Waste Management -- Construction & Demolition Waste Management -- Hazardous Waste Management -- Agricultural Waste Management -- Industrial Waste Management -- Food Waste Management -- Waste-to-Energy Technologies -- Waste Minimization and 3R Strategies -- Circular Economy and Waste Management -- Policy and Regulatory Frameworks for Sustainable Waste Management -- Financing Sustainable Waste Management -- Technology Transfer and Capacity Building for Sustainable Waste Management -- Social and Environmental Impacts of Sustainable Waste Management -- Waste

Sommario/riassunto

This book encapsulates numerous ideas for developing novel strategies toward sustainable waste management, incorporating technology transfer and capacity building for sustainable waste management, and enforcing the stringent policy framework for environmental protection from improper waste management practices. Sustainable waste management is a complex issue that is of increasing concern in developing countries. In these countries, waste management often faces significant challenges due to factors such as inadequate infrastructure, lack of funding and resources, and limited public awareness of the importance of waste management. However, there are also significant opportunities to improve waste management practices and create a more sustainable future. One of the major challenges of waste management in developing countries is inadequate infrastructure. Many developing countries lack the necessary infrastructure to properly manage waste, including landfills, recycling facilities, and waste treatment plants. This leads to significant environmental and health problems, including water pollution, soil contamination, and the spread of disease. This book is an essential resource for researchers and students studying solid waste management, waste valorization, biorefineries, biofuels/products/processes, as well as for geo-environmental engineers, biochemical/chemical engineers, and biotechnologists working in industries and government agencies, policymakers, conservationists, NGOs working for environment protection, etc. The authors are thankful to the contributors of these books for their cooperation and patience in the compilation of this task. The authors are also thankful to Springer team, for their constant support in the publication of this work.