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Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) Mostafa Ezziyani,2020-01-03 This book summarizes the latest research on advanced intelligent systems in the fields of energy and electrical engineering presented at the second edition of the International Conference on Advanced Intelligent Systems for Sustainable Development AI2SD 2019 held in Marrakech from 8 to 11 July 2019 Morocco This book is intended for researchers professionals and anyone interested in the development of advanced intelligent systems in the electrical engineering sector The solutions featured focus on three main areas motion control in complex electromechanical systems including sensorless control fault diagnosis and fault tolerant control of electric drives and new control algorithms for power electronics converters In addition the book includes a range of research using new technologies and advanced approaches Offering a platform for researchers in the field of energy to share their work related to the problem of management and optimization of energy which is a major current concern the book mainly focuses on areas that go hand in hand with the Industrial Revolution 4.0 such as solar energy computing systems smart grids hydroelectric power computing systems thermal and recycling computing systems eco design intelligent computing systems renewable energy for IT equipment modeling green technology and renewable energy systems in smart cities The authors of each chapter report the state of the art in the topics addressed and the results of their own research laboratory experiments and successful applications in order to share the concept of advanced intelligent systems and appropriate tools and techniques for modeling storage management as well as decision support in the field of electrical engineering Further the book discusses a number of future trends and the potential for linking control theory power electronics artificial neural networks embedded controllers and signal processing

Landfill Leachate Treatment Techniques Salah Souabi,Abdelkader Anouzla,2024 This book is a ready reckoner of recent information regarding the impact of leachate landfills leachate treatment and heavy metals on a single platform The amount of waste is constantly growing due to population growth and the evolution of socioeconomic activities Burying this waste produces leachate a contaminated effluent created during the decomposition of organic waste and containing harmful substances like heavy metals polyphenols volatile organic compounds and microorganisms These effluents emit unpleasant odors associated with ammonium ions These discharges significantly impact the environment As a result the master s and doctoral academics researchers and students will be able to comprehend the most recent developments in municipal solid waste landfill operations supporting their research This book inspires readers on how to deal with environmental pollution problems due to leachate contamination in freshwater and agricultural soils using a variety of technologies

Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions Amjad Kallel,Mohamed Ksibi,Hamed Ben Dhia,Nabil Khélifi,2017-12-12 This volume includes the papers presented during the 1st Euro Mediterranean Conference for Environmental Integration EMCEI which was held in Sousse Tunisia in November 2017 This conference was jointly organized

by the editorial office of the Euro Mediterranean Journal for Environmental Integration in Sfax Tunisia and Springer MENA Publishing Program in Germany It aimed to give a more concrete expression to the Euro Mediterranean integration process by supplementing existing North South programs and agreements with a new multilateral scientific forum that emphasizes in particular the vulnerability and proactive remediation of the Euro Mediterranean region from an environmental point of view This volume gives a general and brief overview on current research focusing on emerging environmental issues and challenges and its applications to a variety of problems in the Euro Mediterranean zone and surrounding regions It contains over five hundred and eighty carefully refereed short contributions to the conference Topics covered include 1 innovative approaches and methods for environmental sustainability 2 environmental risk assessment bioremediation ecotoxicology and environmental safety 3 water resources assessment planning protection and management 4 environmental engineering and management 5 natural resources characterization assessment management and valorization 6 intelligent techniques in renewable energy biomass wind waste solar 7 sustainable management of marine environment and coastal areas 8 remote sensing and GIS for geo environmental investigations 9 environmental impacts of geo natural hazards earthquakes landslides volcanic and marine hazards and 10 the environmental health science natural and social impacts on Human health Presenting a wide range of topics and new results this edited volume will appeal to anyone working in the subject area including researchers and students interested to learn more about new advances in environmental research initiatives in view of the ever growing environmental degradation in the Euro Mediterranean region which has turned environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare

Resource Recovery from Wastewater Treatment Giorgio Mannina,Alida Cosenza,Antonio Mineo,2024-06-17 This volume highlights the latest advances innovations and applications in the field of water resource recovery from water treatment as presented by leading researchers at the International Conference on Wider Uptake of Water Resource Recovery from Wastewater Treatment ICWRR held in Palermo Italy on June 18 21 2024 The event took place together with the 7th IWA Regional Membrane Technology Conference IWA RMTTC The contributions cover a wide range of themes from innovative and nature based solutions for water and wastewater management to circularity assessment tools and environmental policy and legislation The topics include resource recovery from wastewater wastewater treatment membrane bioreactors greenhouse gases from wastewater treatment LCA water reuse rainwater harvesting mathematical modelling of wastewater treatment plants metagenomics analysis and environmental microbiology environmental policy and legislation in the water sector plant water soil nexus fertilizers from wastewater The contributions were selected by means of a rigorous peer review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different water specialists *Regional Conference on Science, Technology and Social Sciences (RCSTSS 2016)* Nor Azizah Yacob,Nur Asmaliza Mohd Noor,Nor Yuziah Mohd Yunus,Rahmah Lob Yussof,Shaikh Abdul Karim Yamani

Zakaria,2018-05-26 This book gathers selected theoretical and applied science papers presented at the 2016 Regional Conference of Sciences Technology and Social Sciences RCSTSS 2016 organized biannually by the Universiti Teknologi MARA Pahang Malaysia Addressing a broad range of topics including architecture computer science engineering environmental and management furniture forestry health and medicine material science mathematics plantation and agrotechnology sports science and statistics the book serves as an essential platform for disseminating research findings and inspires positive innovations in the region s development The carefully reviewed papers in this volume present work by researchers of local regional and global prominence Taken together they offer a valuable reference guide and point of departure for all academics and students who want to pursue further research in their respective fields **Technologies of Water and Wastewater Treatment. Section II** Juan Manuel Peralta-Hernández,Stanislav Kolisnychenko,2025-02-17 Aggregated Book **Handbook of Research on Resource Management for Pollution and Waste Treatment** Affam, Augustine Chioma,Ezechi, Ezerie Henry,2019-10-25 It is necessary to understand the extent of pollution in the environment in terms of the air water and soil in order for both humans and animals to live healthier lives Poor waste treatment or pollution monitoring can lead to massive environmental issues such as diminishing valuable resources and cause a significant negative impact on society Solutions such as reuse of waste and sustainable waste management must be explored to prevent these adverse effects The Handbook of Research on Resource Management for Pollution and Waste Treatment is a collection of innovative research that examines waste and pollution treatment methods that can be adopted at local and international levels and examines appropriate resource management strategies for environmentally related issues Featuring coverage on a wide range of topics such as soil washing bioremediation and runoff handling this book is ideally designed for environmentalists engineers waste management professionals natural resource regulators environmental policymakers scientists academicians researchers and students seeking current research on viable resource management methods for the regeneration of their immediate environment **Flotation Processes in Water and Sludge Treatment** K. J. Ives,H. Bernhardt,1995-05-31 There is no description available for this title Water Resources Research Catalog ,1973 Beginning with vol 9 only new and continuing but modified projects are listed Vols 8 should be kept as a record of continuing but unchanged projects **Asian Environment** ,1984 **Journal** ,1988 *Symposium of Materials Science and Chemistry III* Ahmad Kusumaatmaja,Tutik Dwi Wahyuningsih,Melati Khairuddean,Indriana Kartini,Roto Roto,Keisuke Ohto,Dwi Siswanta,Julius Motuzas,Taufik Abdillah Natsir,2021-05-04 Selected peer reviewed full text papers from the 6th International Conference on Science and Technology ICST 2020 Selected peer reviewed papers from the 6th International Conference on Science and Technology ICST 2020 September 7 8 2020 Yogyakarta Indonesia **Canadian Symposium on Water Pollution Research. Proceedings** ,1979 **Integrated Design of Water Treatment Facilities** Susumu Kawamura,1991-03-07 Based on the author s over 35 years of experience in all phases of the design of water treatment

facilities it covers research pilot studies preliminary design studies and the actual design construction and plant management as well and is especially geared toward professional engineers and college students who seek emphasis on the practical rather than principle method rather than methodology Unlike other books on the subject this work covers the entire project sequence describing not only very basic and essential design criteria for each process but also how to design each phase in a way that will maximize overall process efficiency while minimizing operation and maintenance costs As such it will serve not only as a useful guide and reference for design of water treatment plants but also as a tool for project and operations control

BioCycle ,1985 Journal of composting recycling **Evaluation of the Contact Filtration Process for the Production of Potable Water** Robert John Anderson,1989 Bibliography of Agriculture with Subject Index ,1979 Pollution Abstracts ,1996 Indexes material from conference proceedings and hard to find documents in addition to journal articles Over 1 000 journals are indexed and literature published from 1981 to the present is covered Topics in pollution and its management are extensively covered from the standpoints of atmosphere emissions mathematical models effects on people and animals and environmental action Major areas of coverage include air pollution marine pollution freshwater pollution sewage and wastewater treatment waste management land pollution toxicology and health noise and radiation *Water S.A.* ,1986 *Water Treatment Plant Operation* ,2004 This manual is designed to train operators in the safe and effective operation and maintenance of drinking water treatment plants It emphasizes the knowledge and skills needed by operators of conventional surface water treatment plants Also included is information needed by all operators responsible for the administration and management of a water treatment plant

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