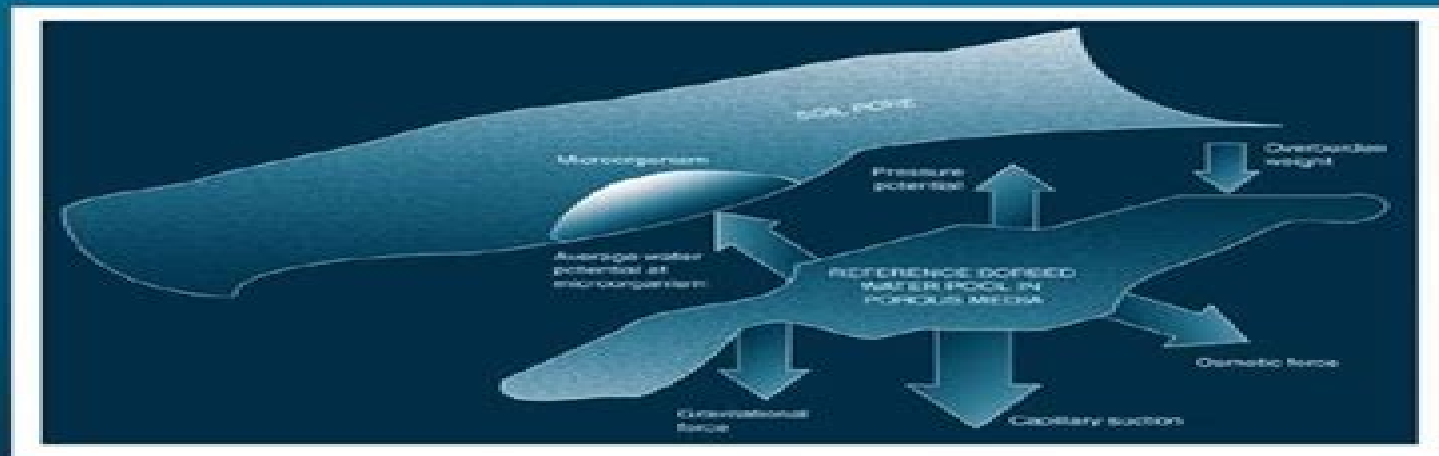


Waste Sites as Biological Reactors

Characterization
and Modeling



Percival A. Miller
with
Nicholas L. Clesceri



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Waste Sites As Biological Reactors Characterization And Modeling

Jonathan Trent, Ames Research Center



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Waste Sites as Biological Reactors Percival A. Miller, Nicholas L. Clesceri, 2002-12-26 Where and how wastes disappear and how the environment is affected by the process are issues that affect cities and towns around the world Recent investigations have convincingly shown that waste poses water air and public health dangers that necessitate highly efficient engineered controls An inexpensive effective method for assessing impacts and risks of a system and devising management plans is to develop mathematical and quantitative models that are sufficiently representative to allow examination of physical systems as units subject to environmental factors Providing detailed coverage of the biological chemical and physical characteristics of solid waste sites *Waste Sites as Biological Reactors Characterization and Modeling* describes the parameters required to understand model and assess the capacity of a waste disposal site as an open biodegradation system The authors present original analyses of waste and reactor kinetics decomposition temperature and moisture effects and heat properties They discuss landfill gas and leachate chemicals generation with detailed composition and property data Tables and figures provide easy access to the information and the authors explore various site management options The simplicity ugliness and beauty of a waste disposal site confronts us with a microcosm of nature at its most basic yet functioning in its most elegant form Where and how wastes disappear and how the environment is affected are issues of concern to cities and towns around the world *Waste Sites as Biological Reactors Characterization and Modeling* deconstructs the mystery of the waste site in such a way that it can be modeled using familiar tools and the information obtained can then be applied to site remediation

Enhanced stabilisation of municipal solid waste in bioreactor landfills Roberto Valencia Vazquez, 2008-12-01 Municipal solid waste entombed in landfills will produce pollution in the form of landfill gas and leachate when the barriers fail in the long term Bioreactor landfills are an alternative solution to avoid such negative impacts and to achieve a more stable residue the so called Final Storage Quality FSQ of residues However until now the main

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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 **Offshore Membrane Enclosures for Growing Algae (OMEGA)** Jonathan Trent, Ames Research Center, 2012

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