CONTENTS

		Page
Prefa	ace	xi
1.	Emerging Technologies in Hazardous Waste Management: Overview	1
	Thermal Treatment and Abiotic Emissions Control	
2.	Hazardous Material Destruction in a Self-Regenerating Combustor-Incinerator	12
3.	Incineration of contaminated Soils in an Electrodynamic Balance	29
4.	Calcination of Calcium Hydroxide Sorbent in the Presence of SO ₂ and Its Effect on	50
	Reactivity	50
	Water Management	
5.	Strategies for Photochemical Treatment of Wastewaters	66
6.	Disposal of Toxic Wastes by Using Concentrated Solar Radiation	83
7.	Oxidation Technologies for Groundwater Treatment	110
8.	Multicomponent Ion-Exchange Equilibria in Chabazite Zeolite	133
9.	Decontamination of Low-Level Radioactive Wastewaters by Continuous Countercurrent	
	Exchange	153
10.	Economic Model for Air Stripping of Volatile Organic Chemicals from Groundwater with	
	Emission Controls	177
	Biological Treatment	
11.	Biodegradation of Munition Waste, TNT (2,4,6-Trinitrotoluene), and RDX	
	(Hexahydro-1,3,5-Trinitro-1,3,5-Triazine) by Phanerochaete Chrysosporium	214
12.	Biodegradation of volatile organic Chemicals in a Biofilter	233
13.	Detoxification of Organophosphorus Pesticide solutions : Immobilized Enzyme System	261
14.	Sequencing Batch Reactor Design in a Denitrifying Application	282
	Solid Waste Management	
15.	Contaminant Leaching from Solidified – Stabilized Wastes: Overview	302
16.	Importance of Soil – Contaminant – Surfactant Interactions for In Situ Soil Washing	316
17.	Mechanisms of Mobilization and Attenuation of Inorganic Contaminants in Coal Ash Bas	sins
		342
18.	Enhanced Metal Mobilization Through Leachants Containing Acetate Ion	365
19.	Three-Dimensional Soil Venting model and Its Application	382
20.	Comparison of Fixation Techniques for Soil containing Arsenic	401
21.	Abovegrade Earth-Mounded Concrete Vault : Structural and Radiological performance	415
Auth	or Index	431
Affiliation Index		432
Subject Index		432