CONTENTS

Preface to Second Edition				
Preface to First Edition				
CHAPTER 1	Intro	1		
CHAPTER 2	Municipal Solid Waste		3	
	2.1	Introduction to Municipal Solid Waste	3	
	2.2	Organization and Management of Municipal Solid Waste	4	
	2.3	Quantity of Municipal Solid Waste	30	
	2.4	Characteristics of Municipal Solid Waste	32	
	2.5	Evolution of Municipal Solid Waste Management	38	
	2.6	Municipal Solid Waste Management	39	
	2.7	Technologies for Municipal Solid Waste Management	41	
	2.8	Tools and Equipment	90	
	2.9	Reclamation, Reuse, and Recovery of Energy From Municipal Solid Waste	93	
	2.10	Socioeconomic Considerations of Resource Recovery	102	
	2.11	Case Study	116	
	2.12	Legal Provision	120	
	Acknowledgment		120	
CHAPTER 3	Plastic Waste		121	
	3.1	Introduction to Plastic Waste	121	
	3.2	Characterization of Plastics	122	
	3.3	Technologies for Plastic		
	2.4	Waste Management	122	
	3.4	Legal Provision	126	
CHAPTER 4	Biomedical Waste		127	
	4.1	Introduction to Biomedical Waste	127	

	4.2	Evolution of Biomedical Waste Manageme	nt 128
	4.3	Organization and Management of	
		Biomedical Waste	130
	4.4	Characteristics of Biomedical Waste	131
	4.5	Categorization of Biomedical Waste	131
	4.6	Quantification of Biomedical Waste	133
	4.7	Segregation, Handling, and Storage of	
		Biomedical Waste	136
	4.8	Treatment, Destruction, Disposal of Biomedical Waste	140
	4.9	Technologies for Biomedical	
		Waste Management	141
	4.10	Tools and Equipment Required for	
		Biomedical Waste Management	147
	4.11	Case Study	150
	4.12	Legal Provision	157
CHAPTER 5	Hazardous Waste		158
	5.1	Introduction to Hazardous Waste	158
	5.2	Management of Hazardous Waste	159
	5.3	Characterization of Hazardous Waste	159
	5.4	Storage, Transport, and Disposal of Hazardous Waste	167
	5.5	Dissolution: Soil Flushing/Soil Washing	182
	5.6	Chemical Dehalogenation	192
	5.7	Monitoring Protocol for Treatment Storage and Disposal Facility	204
	5.8	Legal Provision	206
CHAPTER 6	Elec	tronic Waste	207
	6.1	Introduction to Electronic Waste	207
	6.2	Average Life of Electronic Goods/Average	
		Life Cycle/Obsolescence Rate	209
	6.3	Classification of E-Waste	210
	6.4	Categories of E-Waste	210
	6.5	Composition and Characteristics of E-Waste	213

	6.6	Quantity of E-Waste	224
	6.7 6.8 6.9 6.10 6.11	Organization and Management of E-Waste Evolution of E-Waste Management Technologies for E-Waste Management Case Study Legal Provision	227 227 230 234 240
CHAPTER 7	Soil	Remediation Technologies	241
	7.1	Introduction	241
	7.2	Sampling Technology	241
	7.3	Technologies for Decontamination of Soil	243
CHAPTER 8	Was	te Minimization	259
	8.1	Introduction to Waste Minimization	259
	8.2	Municipal Solid Waste Minimization	260
	8.3	Industrial Waste Minimization	261
CHAPTER 9	Envi	ronment Impact Assessment	271
	9.1	Introduction to Environmental	074
	9.2	Impact Assessment Environment Impact Assessment Steps	271 274
	9.2	Legal Provision	293
CHAPTER 10	Elec	tronic Waste Management in	
	Some Countries		
	Introd	luction	300
	10.1	Australia	301
	10.2	United States of America	303
	10.3 10.4	Canada China	307 310
	10.5	India	312
	10.6	Indonesia	314
	10.7	Japan	315
	10.8	Malaysia	317
	10.9	Singapore	318
	10.10	South Korea	320
	10.11	Switzerland	321
	10.12	Brazil	323
	10.13	European Union	328
Index			330