

Contents

About the Author	vii
Preface	ix
Acknowledgements	xi
Acronyms and Abbreviations	xiii
1 Introduction	1
Current Waste Generation	1
The New Solid Waste Paradigm—"Materials Management"	4
Long-Term International "Drivers"	5
References	9
2 Policy Implications for Solid Waste and Recycling	11
City of Santa Monica	11
City of San Jose	13
Metro Vancouver	14
New York	14
Oregon	16
Vermont	17
References	18
3 Collection Approaches	19
Waste Reduction and Reuse	19
Solid Waste Collection Systems	24
Recycling Collection Programs	28
Organic Wastes	34
References	41
4 Processing Technologies	43
What Can Be Recovered from Your Waste Stream	43
Diversion Opportunities	55
Conventional Processing Technologies	57
Trends in MRF Design	72
Construction and Demolition Debris Recycling	75
References	110
5 Marketing Recyclables	113
Market Forces	113
Recyclable Materials	116
References	138

6	Public Education Programs	139
	How Do People Learn	139
	Where Do You Begin?	142
	The Communications Plan	145
	The Clean Community System	146
	Beginning with Preschoolers—The Mister Rogers Model	149
	Varieties of Educational Methods	150
	Sources of Public Education Information and Materials	155
	References	156
7	Recycling Economics	157
	Market Revenues for Recyclable Commodities	157
	Transportation Issues	158
	Understanding Cost Analysis	161
	Determining Economic Feasibility	164
	Presenting All the Numbers	169
	Financing Programs	172
	Customer Billing Approaches	175
	References	179
8	Institutional Issues	181
	Procurement	181
	Ownership Issues	188
	Risk Assessment	191
	Waste Flow Considerations	193
	References	201
9	Case Studies	203
	Bibliography	219
	Glossary	225
	Index	235