Contents

List of figures vii
List of tables x
Preface xiii

Introduction 1

1 Overview: Environmental input–output analysis 4

2 A structural decomposition of energy consumption based on a hybrid rectangular input–output framework: Japan’s case 18


4 An empirical analysis of industrial waste embodied in the 1995 Japanese economy 65

5 A simple multiregional input–output account for waste analysis 85

6 Measuring spatial repercussion effects of regional waste management 103

7 Interindustry analysis, consumption structure, and the household waste production structure 133

8 The economic and environmental consequences of automobile lifetime extension and fuel economy improvement: Japan’s case 145
9 Does product lifetime extension increase our income at the expense of energy consumption? 171

Appendices 201
Notes 225
Bibliography 233
Index 245