

# Contents

## Preface — v

<b>1</b>	<b>The principle of environmental pollution control — 1</b>
1.1	The basic theory — 1
1.2	Environmental pollution control targets — 4
1.3	Pollution control technology — 8
1.4	High-technology outlook — 13
<b>2</b>	<b>Water pollution control technology — 17</b>
2.1	Introduction — 17
2.2	Physical method — 19
2.3	Chemical method — 26
2.4	Physicochemical method — 34
2.5	Biological method — 51
2.6	Technique process and reuse of wastewater — 64
2.7	Summary and outlook — 72
<b>3</b>	<b>Air pollution control technology — 73</b>
3.1	Introduction — 73
3.2	Air pollution control technology for stationary source — 75
3.3	Air pollution control technology of mobile source — 86
3.4	Summary and outlook — 96
<b>4</b>	<b>Solid waste pollution control technology — 99</b>
4.1	Introduction — 99
4.2	Solid waste treatment and disposal technologies — 100
4.3	Industrial solid waste treatment and disposal technology — 122
4.4	Hazardous waste treatment and disposal technology — 124
4.5	Summary and outlook — 136
<b>5</b>	<b>Physical pollution control technology — 139</b>
5.1	Introduction — 139
5.2	Sound source control technology — 142
5.3	Noise control technology — 169
5.4	Noise pollution control planning and management — 177
5.5	Other physical pollution prevention technologies — 181
5.6	Summary and outlook — 187

**6 Ecological recovery technology — 191**

- 6.1 Introduction — 191
- 6.2 Ecological engineering design — 193
- 6.3 Ecological engineering technology — 202
- 6.4 Ecological engineering technology optimization — 222
- 6.5 Summary and outlook — 245

**7 Regional environmental systems engineering and technology — 247**

- 7.1 Introduction — 247
- 7.2 Environmental system information technology and simulation model — 247
- 7.3 Regional/watershed planning technology — 271
- 7.4 Summary and outlook — 285

**Postscript — 287**

**Acknowledgments — 289**

**About the authors — 291**

**Index — 293**