<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PREFACE</strong></td>
</tr>
<tr>
<td>1 Introduction and Unifying Principles</td>
</tr>
<tr>
<td>2 Ultraviolet and Visible Spectrophotometry</td>
</tr>
<tr>
<td>3 Infrared Spectrophotometry</td>
</tr>
<tr>
<td>4 Emission Spectroscopy</td>
</tr>
<tr>
<td>5 Flame Photometry, Atomic Absorption Spectroscopy, and Atomic Fluorescence Spectroscopy</td>
</tr>
<tr>
<td>6 Raman Spectroscopy</td>
</tr>
<tr>
<td>7 Microwave Spectroscopy</td>
</tr>
<tr>
<td>8 Fluorometry and Phosphorimetry</td>
</tr>
<tr>
<td>9 Refractometry and Interferometry</td>
</tr>
<tr>
<td>10 Spectropolarimetry and Circular-dichroism Spectrometry</td>
</tr>
<tr>
<td>11 Turbidimetry and Nephelometry</td>
</tr>
<tr>
<td>12 X-ray Methods: Absorption, Emission, and Diffraction</td>
</tr>
</tbody>
</table>
vi CONTENTS

13 Nuclear Magnetic Resonance and Electron Spin Resonance Spectroscopy  487
14 Gamma-ray Spectroscopy and Mössbauer Spectroscopy  579

APPENDIXES
A Supplementary Definitions and Principles  611
B Tables  619

INDEX  621