

Contents

Foreword	vii
Preface	ix
1: Introduction	1
2: Quality of water	5
3: Overview of water treatment	26
4: Preliminary treatment	46
5: Coagulation and flocculation	64
6: Coagulants and coagulant aids	76
7: Theory and principles of clarification	93
8: Types of clarifiers	110
9: Filtration	141
10: Membrane processes	171
11: Other processes	182
12: Disinfection	214
13: Waterworks wastes and sludge	232
14: Private water supplies	246
15: Water safety plans	257
16: Water demand and use	266

Appendices:

1: Sample calculations	278
2: Comparison of different drinking water-quality standards	285
3: Glossary	290
4: SI units and basic conversion factors	299
References	301
Index	309