

**CHAPTER**

1	Elements of Water Sanitation . . . . .	1
✓ 2	Water-Supply Systems . . . . .	28
3	Waste-Water Disposal Systems . . . . .	55
4	Statistical Analysis of Quantitative Information . . . . .	85
5	Quantities of Water and Waste Water . . . . .	116
6	Elements of Hydrology . . . . .	138
7	Rainfall and Runoff . . . . .	160
8	Storage and Regulation of Runoff . . . . .	188
✓ 9	Ground Water . . . . .	208
10	Collection of Surface Water . . . . .	232
11	Collection of Ground Water . . . . .	265
12	Transmission of Water . . . . .	300
13	Distribution of Water . . . . .	336
14	Water Supply and Drainage of Buildings . . . . .	369
15	Flow in Sewers and Their Appurtenances . . . . .	395
16	Collection of Sewage and Storm Drainage . . . . .	423
17	Physical Properties of Water . . . . .	442
18	Elements of Water Chemistry . . . . .	462
19	Biology of Water and Waste Water . . . . .	501
20	Examination of Water and Waste Water . . . . .	531
21	Standards of Water Quality and Unit Operations of Water and Waste-Water Treatment . . . . .	566

22	Sedimentation and Flotation . . . . .	584
23	Chemical Coagulation, Precipitation, Ion Exchange, and Stabilization . . . . .	616
24	Filtration . . . . .	656
25	Biological Flocculation and Precipitation . . . . .	703
26	Sludge Treatment and Disposal . . . . .	755
27	Disinfection, Destruction of Aquatic Growths, and Removal of Odors and Tastes . . . . .	793
28	The Natural or Self-Purification of Water . . . . .	827
29	Industrial Water Supply and Waste-Water Disposal . . . . .	854
30	Rural Water Supply and Waste-Water Disposal—Swimming Pools . . . . .	884
	Appendix . . . . .	913
	Bibliography . . . . .	927
	Index . . . . .	953