

CONTENTS

		Page
1.	Current Chlorination and Dechlorination Practices in the Treatment of Potable Water, Wastewater and Cooling Water	1
	Section I Aqueous Chemistry of Chlorine	
2.	The chemistry of Aqueous Chlorine in Relation to Water Chlorination	21
3.	Measurement and Persistence of chlorine Residuals in Natural Waters	37
4.	Organochemical Implications of Water Chlorination	65
5.	Chlorination of Organics in Drinking Water	77
6.	Chlorination of Organics in cooling Waters and Process Effluents	105
7.	Analysis of New Chlorinated Organic compounds Formed by Chlorination of Municipal Wastewater	139
8.	Chemistry of Halogens in Sea Water	161
9.	Decision-Making in the Regulation of Chemicals	181
	Section II Biomedical Effects of Chloro-Organics	
10.	Halogenated organics in Tap Water : A Toxicological Evaluation	195
11.	Origin, classification and Distribution of chemicals in Drinking Water with an Assessment of their Carcinogenic Potential	211
12.	The Potential for Increased Mutagenic Risk to the Human Population Due to the Products of Water Chlorination	229
13.	The Epidemiologic Approach to the Evaluation of Water-Borne Carcinogens	243
	Section III Environmental Transport And Effects	
14.	The Toxicity of chlorine to Freshwater Organisms Under Varying Environmental Conditions	261
15.	A Revised Review of the Impact of chlorination Processes Upon marine Ecosystems : Update 1977	283
16.	Chlorinated compounds Found in Waste treatment Effluents and Their Capacity to Bioaccumulate	311
17.	Investigating the Effects of Chlorinated Organics	329
	Section IV : Modeling and Prediction	
18.	Modeling Residual Chlorine Levels : Closed-Cycle Cooling Systems	345
19.	A Kinetics Model for Predicting the Composition of Chlorinated Water Discharged from Power Plant Cooling Systems	367
20.	Assessing Toxic Effects of Chlorinated Effluents on Aquatic Organisms : A Predictive Tool	379
	Section V Roundtable Discussion	
21.	Roundtable Discussion	401
	Index	425