## Contents

PREFACE			vi
CHAPTER	I	Coagulation	
		Theory	
		Process Selection and Evaluation Applicability of Instrumentation	12
		Typical Applications	
		Suspended Solids Wastes, Colored W Oil Beari Wastes	
CHAPTER	II.	Chemical Precipitation	
		Theory	24
		Process Evaluation and Design Suitability of Automatic Control, Mode of Scale-up of Laboratory and Pilot Plant Uni	25
		Typical Applications	28
CHAPTER	III.	Chemical Oxidation and Reduction	
		Theory	33
		Process Evaluation and Design	38
		Typical Applications	
CHAPTER	IV	Neutralization	
		Theory	49
		Neutralization Technology	51

	Neutralizing Agents	51
	Sludge Volume and Characteristics	60
	Scale Formation and Control	65
	Process Development.	70
	Instrumentation	70
	Pickle Liquor Neutralization Excess Lime Methods, Controlled Oxidation Methods	72
	Limestone Neutralization	79
	Lime Neutralization of Dilute Acid	82
CHAPTER	V. Sludges: Properties, Handling and Disposal	
	Theory  Volume-Moisture Relations, Control of Sludge Properties, Sludge Conditioning, Sludge Dewatering Process	86
	Process Evaluation and Design	93
	Sludge Lagoons	99
	Thickening Applications	100
		101
	Underdrained Sand Beds Applications	105
	Lagooning Applications	106
	Sludge Disposal	107
APPENDIX.	Materials: Properties, Handling and Store	age
	Handling	108
	C4	109
	The addition of	109
	Canada and 1	110
•	75	110
REFERENCI	E BIBLIOGRAPHY	
	Subject Index to Bibliography	121
•	70'11'	121
		14J