

CONTENTS

Part I / Raw Sugar Factory		
Chapter 1.	Sugar Cane	1
Chapter 2.	Harvesting and Transportation of Sugar Cane to the Factory	9
Chapter 3.	Washing the Sugar Cane and Cleaning the Juices	26
Chapter 4.	Extraction of Juice from Sugar Cane	44
	Extraction by Crushing	44
	Sugar Cane Diffusion Process	70
Chapter 5.	Weighing of Raw Cane Juice	85
Chapter 6.	Liming of Cane Juice	92
Chapter 7.	Clarification of Cane Juice	99
Chapter 8.	Filtration of Mud from Clarifiers	111
Chapter 9.	Evaporation	122
Chapter 10.	Boiling of Raw Sugar Masecuites	144
Chapter 11.	Crystallization by Cooling and Motion of Low Grade Masecuites, and the Exhaustion of Final Molasses	167
Chapter 12.	Centrifuging and Purging of Masecuites	187
Chapter 13.	Storing and Shipping Bulk Sugar	204
Chapter 14.	Final Molasses	218
Chapter 15.	Cleaning Heating Surfaces of Evaporators, Vacuum Pans and Heaters	225
Chapter 16.	Water in Cane Sugar Mill. Its Uses, Care and Treatment for Boiler Feed	231
Part II / Refining		
Chapter 17.	Raw Sugar	240
Chapter 18.	Affination and Melting	255
Chapter 19.	Clarification and Treatment of Refinery Melt	267
	Pretreatment of Melt	267
	Decolorization by Phosphate-Lime Treatment in Continuous Floatation Clarifiers	268
	Carbonatation	275
	Carbon Dioxide Compressors	283
Chapter 20.	Decolorization of Refinery Liquors using Granular Adsorbents and other Decolorizing Agents	286
	Decolorization using Granular Adsorbents	286
	Powdered Activated Carbons	293
	Sucro-Blanc Process	296
	Ion Exchangers	297
Chapter 21.	Filtration	299
Chapter 22.	Evaporation in Refinery and Crystallization of Refinery Decolorized Liquors	325
Chapter 23.	Drying, Cooling, Conditioning and Bulk Handling of Refined Sugar	337
Chapter 24.	Remelt	356
Chapter 25.	Various Types of Refined Sugar	361