

Contents

<i>Preface</i>	Page v
<i>Acknowledgements</i>	vi
1. THE PREPARATION AND MANUFACTURE OF TEA	I
Green tea—Brick or tablet tea—Pickled tea—Oolong and scented tea—Black tea preparation in China—Black tea preparation in Assam—Tea manufacture—Orthodox manu- facture—Legg-cut, CTC and Rotorvane—Instant or powder tea—Manufacture of tea machinery	
2. RELATIONSHIP BETWEEN FRESH LEAF AND MADE TEA	13
Liquoring qualities and fine leaf—'Red leaf'—The botanical classification of the tea plant—The planters' classification of the tea plant—Quality and flavour—Climate, altitude, <i>jat</i> , quality and flavour—The Pizey roller	
3. THE WITHERING OF TEA LEAF	23
Chemical changes during withering—Physical changes during withering—The moisture content of fresh leaf—The degree of the wither—Natural withering—Controlled withering—Loft withering—The mobile tat system—The withering tunnel—Trough withering—Controlled withering in the future	
4. THE ROLLING PROCESS	37
Tea rollers—The development of heat in rolling—Cold rollers—Expressors—Leaf movement in rollers—Pressure caps—Battens and cones—Legg-cut teas—CTC teas—The Rotorvane—Green-sifting or roll-breaking—The batch and the continuous process—The LDS system	
5. THE FERMENTATION PROCESS	51
Chemical changes during fermentation—Rate of fermenta- tion—Heat development in fermentation—The fermenting room—Bacterial cleanliness—The end of fermentation	

CONTENTS

	<i>Page</i>
6. THE FIRING OR DRYING OF TEA	59
Chemical changes during firing—Temperature and period of drying—Dryer exhaust temperatures—Tea dryer output—The maturation and final firing of tea—The estimation of moisture in tea—Fuel for tea dryers—Alternative methods of drying tea	
7. THE CLASSIFICATION, GRADING AND SORTING OF TEA	70
Tea grades—The sorting of tea—Tip—The greying of tea leaf—Stalk and fluff extraction—Tea waste—Tea bins—Tea chests	
8. THE MODERN TEA FACTORY	81
Crop distribution—Machinery and equipment—Equipment and orthodox manufacture—Legg-cut teas—The CTC and Rotorvane—Trough withering—The tea factory of the future—Factory experiments	
9. FACTORY MANAGEMENT	91
The factory—The leaf—Standard procedure—Withering—Rolling—Fermentation—Firing—Grading and packing	
10. TEA TASTING	98
Taste—Aroma—Appearance—Tea tasting procedure—Terms describing the appearance of the tea—Terms describing the infused leaf—Terms describing the liquor—Terms describing general characteristics—Tea blending	
11. THE CHEMISTRY OF BLACK TEA MANUFACTURE and THE PHARMACOLOGY OF TEA	107
The tea leaf—Caffeine—The leaf enzymes—The polyphenols in tea leaf—Theaflavins and thearubigins—Changes during manufacture—The pharmacology of tea	
<i>Glossary</i>	115
<i>Index</i>	124