CONTENTS

ACKNOWLEDGEMENTS	xvi
FOREWORD	xviii
INTRODUCTION	xix
PART ONE: Breadmaking and Fermented Goods	
CHAPTER 1	3
Food Hygiene; The First Mixing; Calculation of Water Temperature; Calculation of	
Yeast Quantities; Salt: Usage in Bread and Fermented Goods; Some Experiments;	
Water: Usage and the Effects of Temperature.	
CHAPTER 2	17
Reasons for knocking back; Brown Breads: Reasons for Different Processes;	
Bun Doughs: Reasons for a ferment; Should a Ferment Drop? Fermented Small Goods.	
CHAPTER 3	25
Wheat and the Wheat Grain: Wheat Growing Countries;	
Stone Milling; Roller Milling; The Fragmentation Process.	
CHAPTER 4	36
Flour Grades: Extraction Rates; Constituents of Flour; Nutritional Value;	
Simple Flour Tests; The Function of Gluten; Self-Raising Flour.	
CHAPTER 5	49
Panary Fermentation: Historical Survey; Yeast: Struc-	
ture and Life; Function of Yeast; Condition and Storage; Manufacture.	
CHAPTER 6	59
Salt: Commercial Production; Water: Its use in Bread-	
making; Water: Essential Work in Bakery Production.	
CHAPTER 7	66
Malt and Malt Products: Malting; Types of Malt available	
to the Baker; The use of Malt; Malt Breads.	

CHAPTER 8	74
Chemical and Physical Changes during Fermentation; Baking and Cooling.	/4
Chemical and Thysical Changes during Tollinghamon, Balling and Cooling.	
CHAPTER 9	82
Characteristics of good Bread; Bread Faults; Causes and Prevention; Rope:	
Cause and Prevention; Acid, Dough.	
CHAPTER 10	97
Breadmaking Processes: Straight Dough; Ferment and Dough; Sponge and Dough;	, ,
The Salt-Delayed Method; The Continuous Breadmaking Process.	
210 24 m 24 m 4 m 4 m 4 m 4 m 4 m 4 m 4 m 4	
CHAPTER 11	105
Bread Improvers: Mineral Additives; Enriching Agents; Yeast Foods.	
CHAPTER 12	113
Combustion: Heat Transference; Ovens: History; Firing; Types; Construction;	
Principles of Heating; Turbulent Heat; Care and Maintenance of Ovens.	
CHAPTER 13	130
Enzymes: Fungal Enzymes; Fermentation Tolerance; Gassing Power; Gas Retention;	
Staling: Anti-Staling Agents; Flour Improvers: Bleaching Agents;	
Batter Process of Breadmaking.	
CHARTER 14	150
CHAPTER 14	150
Barms: History; Use of Barms in Breadmaking.	
CHAPTER 15	155
Nutrition: Constituents of Food; Nutritional Value of Bread: Constituents of Bread;	
Enrichment of Bread.	
CHAPTER 16	169
Vienna Bread: Basic Formula; Manufacture; Action of Steam; Fancy Rolls;	
Fancy Tea Breads; Plaiting; Harvest Bread; Cholla Bread; Hot-Plate Goods;	
Chemically Aerated Breads; Milk Bread; Fruit Breads; Stollen.	
CWARTER 15	40-
CHAPTER 17	199
Moulds; Flour Spoilage: Infestation; Retardation of Fer-mented Goods;	

Deep Freezing Bakery Products.

CHAPTER 18	211
Physical Methods of Dough Testing: History; Dynamic and Static Tests; Hagberg Number.	
CHAPTER 19	227
Bakery Layout; Bakery Organization; Management of Personnel;	
Automatic Bread Production; Definition of Terms.	
PART TWO: Flour Confectionery	
CHAPTER 20	243
Powder Aerated Goods: Basic Formulae and Production;	
Baking Confectionery Products: Reasons for Different Temperatures.	
CHAPTER 21	251
Cake Decoration: Principles; Decorative Media; Icing and Piping;	
Tools and Equipment; Exercises; Colour: Theory and Classification.	
CHAPTER 22	262
Short Pastry: Principles of Manufacture; Basic Formula; Diagnosis of Faults;	
Puff Pastry: Principles of Lamination; Types and Methods of Manufacture;	
Basic Formulae; Reasons for the lift; Diagnosis of Faults.	
CHAPTER 23	271
Confectionery Flours: Grades; Special Cake Flour; Other Cereals: Processing;	
Uses in Bakery Products; Sugar: Sources and Refining; Sugars used in the Bakery.	
CHAPTER 24	283
Milk: Constituent Parts; Processing; Storage; Souring; Milk: Its uses in Confectionery;	
Eggs: Constituent Parts; Grading; Preservation Processes; De-frosting; Uses in	
Confectionery Products.	
CHAPTER 25	297
Cake-making Processes: Sugar Batter; Flour Batter; Modified Methods; Aeration in Flour	

Confectionery: Panary; Chemical; Mechanical; Combination of Methods.

CHAPTER 26	06
Fats and Oils: Basic Types; Function of Fats in Bakery Products;	
Fats used by the Baker; Sources; Processing and Composition.	
CHAPTER 27 3	18
Baking-powders: Definition; History; Chemicals used; Reactions;	
Effects on Bakery Products; Some Experiments; Comparative Merits of	
Cream of Tartar and Cream Powders.	
CHAPTER 28	27
Formula Balance: Construction of Formulae; Basic Formula and Rebalance;	
Effects of Basic Ingredients; Cake Faults: Diagnosis and Causes; Changes during	
Baking: Faults in Baking; Fruit Ratios.	
CHAPTER 29	39
Creams: Types; Dairy Cream: Definition and Standards; Composition and Preparation;	
Other Creams: Formulae and Manufacture; Sponge Goods: History; Principles of Manufacture;	
Basic Formulae; Marbling a Gateau; Jellying Agents: Sources and Manufacture; Slab Cakes:	
Preparation of Frames; Formulae; Faults; The use of Cake Crumbs.	
CHAPTER 30 3.	58
Flavour in Confectionery: Taste and Aroma; Essential Oils; Vanilla Extract;	
Fruit Juices; Liqueurs; Synthetic Flavours; Other Flavours; Aromatic Dried Fruits;	
Spices: Sources and Processing.	
CHAPTER 31 3	69
Nuts used in Confectionery: Sources and Processing; Almond Paste and Marzipan;	
Cocoa and Chocolate: History; Processing and Manufacture; Its uses in the Bakery-;	
Tempering; Easter Eggs; Ganache.	
CHAPTER 32 3	81
Dried Fruits: Growth and Climatic Conditions; Types; Crystallized Fruits and Flowers;	
Candied Peel; Fruit Preserving: Storage; Dehydration; Freezing; Bottling; Canning; Jams:	
Manufacture; Standards; Fruit Jellies; ColdSet Jellies; Piping Jellies; Lemon and Orange Curds.	

CHAPTER 33	396
Colours used in Confectionery: Natural and Synthetic Colours; Source and Processing.	
CHAPTER 34	401
Making and Icing a Cake: Preparation of Hoop; Formula; Almond Pasting; Coating;	
The Bride Cake: Formula; Proportions; Added Decorations; Balance of the Design;	
Styles in Cake Decoration; History; Modern Trends; Danish Pastries; Formula;	
Method of Manufacture and Finish; Pork Pies: Formula and Method of Manufacture;	
Vol-au-vents: Method of Manufacture; Roux: Its use and Preparation.	
CHAPTER 35	417
Sugar-boiling: Saturated and Unsaturated Solutions; Methods of Recrystallization;	
Degrees of Boiling; Croquant; Praline; Modelling Pastes; Pulled Sugar; HighRatio Cakes.	
CHAPTER 36	427
Emulsions and Homogenization: Emulsifying Agents; Costings; Examinations.	
BIBLIOGRAPHY	435
INDEX	437