

CONTENTS

Contributors to Volume 2	vii
Preface to First Edition	ix
Preface to Second Edition	xi
Contents of Volumes 1, 3 and 4	xiii
1 Water and Wastewater	1
W.M. THOMAS and P.M. BERRYMAN	
1 Introduction	2
2 Analytical methods for water and wastewater	3
3 Standards for drinking water, water used in the food industry And wastewater discharges	10
4 The dairy industry	14
5 Fish and meat processing industries	19
6 Fruit and vegetable processing industries	24
7 The brewing industry	28
8 The soft drinks industry	31
9 Bottled natural mineral waters	38
10 Non-metallic materials for use in contact with potable water	39
References	39
2 Dairy Products	47
J.G. DAVIS	
1 Introduction	51
2 Sampling of dairy products	55
3 Physical methods	57
4 Chemical methods	59
5 Microbiological aspects	63
6 Raw or untreated milk	90
7 Pasteurised milk	115
8 Sterilized milk	123
9 Aseptically filled UHT milk	129
10 Flavoured milks	133
11 Cream	134
12 Manufactured products	154
13 Evaporated milk	159
14 Sterile concentrated milk	163

15	Frozen concentrated milk	164
16	Sweetened condensed milk	165
17	Milk powder or dried milk	170
18	Butter	178
19	Cheese	187
20	Cultured milks	215
21	Other dairy products	222
22	Sensory tests in the dairy industry	233
23	Substances added to dairy products	234
24	Packaging	236
25	Legal aspects and international standards	238
26	Cleanliness and sterility of equipment	242
27	Milk and human health	250
28	Miscellaneous aspects	256
	References	257
3	Meat and Meat Products	273
	E.F. WILLIAMS	
1	Introduction	274
2	Assessment of carcase quality	276
3	Quality characteristics	277
4	Factors affecting quality	282
5	Meat inspection	291
6	Refrigeration	292
7	Meat products	297
8	Comminuted meat products	300
9	Cured meat products	313
10	Canned meat products	319
11	Meat pies	326
12	Poultry	328
13	Frozen meat meals	331
14	Packaging and display	332
15	Conclusion	335
	References	335
4	Fish and Products	347
	J.J.CONNELL and P.F. HOWGATE	
1	Introduction	347
2	Quality factors and principles of their control	348
3	Measurement of quality	359

4	Control of quality in practice	375
5	Systematic quality control	388
	References	395
5	Edible Oils and Fats	407
	G.HOFFMANN	
1	Introduction	408
2	Chemistry of fats	409
3	Contaminating substances	418
4	Fat modifying reactions	419
5	Fatty raw material resources	425
6	Fat processing technology	438
7	Edible fat products	448
8	Quality control	450
9	Methods	462
	References	501
	Index	505

Contributors to Volume 2

P.M. Berryman, Bostock Hill and Rigby (incorporating Counties Public Health Laboratories and Thresh Beale and Suckling), Birmingham, United Kingdom

J.J. Connell, MAFF, Tory Research Station, Aberdeen AB9 8DG, United Kingdom

J.G. Davis, J.G. Davis and Partners, Reading RG1 5AS, United Kingdom

G. Hoffmann, Unilever Research Laboratorium, 3130 AC Vlaardingen, The Netherlands

P.F. Howgate, MAFF, Torry Research Station, Aberdeen AB9 8DG, United Kingdom

W.M. Thomas, Bostock Hill and Rigby (incorporating Counties Public Health Laboratories and Thresh Beale and Suckling), Birmingham, United Kingdom

E.F. Williams¹, J. Sainsbury Ltd., London, United Kingdom