
CONTENTS

1.	Introduction - food in perspective	1
1.1	Brief history of food production	2
1.2	Plant and animal domestication	5
1.3	What is food made of?	9
1.4	Innovation and product development	15
1.5	The food production chain	20
2.	Food preservation and processing technologies	22
2.1	Food preservation	22
2.2	Food processing	36
2.3	Conclusions	47
3.	Food packaging issues	48
3.1	Types of packaging	48
3.2	Packaging functions	53
3.3	Environmental aspects	55
4.	Food safety hazards	57
4.1	Micro-organisms of concern	57
4.2	Chemical hazards	66
4.3	Foreign bodies	72
4.4	Allergens	76
4.5	Conclusions	77
5.	Food quality attributes	78
5.1	Quality deterioration	78
5.2	Consumer-driven quality issues	82
6.	Quality assurance and quality control	87
6.1	The philosophy of HACCP	88
6.2	Hygienic design and good manufacturing practice	91

Food Manufacturing: An Overview

7.	Food legislation and regulation	94
7.1	The legislation - some examples	94
7.2	Enforcement of legislation	105
7.3	Self regulation and codes of practice	108
8.	References and further reading	110
	About CCFRA	118