

CONTENTS

Ingredients

1. GRAIN-BASED INGREDIENTS	1
2. FATS, OILS, EMULSIFIERS, AND ANTIOXIDANTS	11
3. SWEETENERS	25
4. INGREDIENTS DERIVED FROM EGGS AND MILK	39
5. SALT AND SALT REPLACERS	51
6. WATER	61
7. NUTS	71
8. VEGETABLES, FRUITS, AND SPICES	85
9. INGREDIENTS FOR COLORING AND FLAVORING	99
10. OTHER INGREDIENTS	113

Processes and Formulas

11. SNACKS BASED ON POPCORN	133
12. CHIPS MADE FROM DOUGHS	145
13. PUFFED SNACKS	159
14. BAKED SAVORY SNACKS	173
15. BAKED SWEET SNACKS	185
16. SNACKS BASED ON NUTS	197
17. POTATO CHIPS	211
18. MEAT-BASED SNACKS	225
19. SNACKS BASED LARGELY ON FRUITS	235
20. OTHER TYPES OF SNACKS	243

Equipment

21. RECEIVING, CONVEYING, AND STORING INGREDIENTS	251
22. WEIGHING AND METERING EQUIPMENT	263
23. SPECIALIZED EQUIPMENT FOR POPCORN PROCESSING	277
24. SPECIALIZED EQUIPMENT FOR POTATO CHIPS	285
25. EXTRUDERS AND ASSOCIATED EQUIPMENT	29
26. EQUIPMENT FOR BAKING, DRYING, AND FRYING	313
27. CONTAINER MATERIALS AND DESIGN	331
28. PACKAGING EQUIPMENT AND PACKAGE TESTING	349
29. MISCELLANEOUS EQUIPMENT	361
30. COMPUTERS IN THE PLANT AND LABORATORY	373

Managing Technical Functions

31. DEVELOPING NEW AND IMPROVED PRODUCTS	385
32. ADMINISTERING QUALITY ASSURANCE	399
33. SAFETY AND SANITATION	413
34. MEETING SPECIAL DIETARY NEEDS	425
INDEX	439