

CONTENTS

Foreword	V
List of illustrations	XIII
List of tables	XV
Introduction	1
1. Cassava cultivation	3
THE PLANT	3
AGRICULTURAL PRACTICES	4
2. Cassava flour and starch	19
SUPPLY OF CASSAVA ROOTS	20
PROCESSING OPERATIONS	20
EXTRACTION OF STARCH FROM DRIED CASSAVA ROOTS	54
3. Baked tapioca products	55
PREPARATION OF WET FLOUR	55
GELATINIZATION	58
DRYING	61
4. Cassava products for animal feeding	63
CHIPS	63
BROKEN ROOTS	65
PELLETS	65
MEAL	65
RESIDUAL PULP	66
5. Cassava starch factories	67
POWER	67
WATER	68
TYPES OF FACTORIES	70
ESTABLISHMENT OF A CASSAVA STARCH FACTORY	76

6. Utilization of cassava products	81
CASSAVA IN THE HUMAN DIET	81
CASSAVA STARCH AND ITS USES	87
CASSAVA IN COMPOSITE FLOURS	93
CASSAVA IN ANIMAL FEED	96
NONFOOD USES	97
PARTICLE BOARD FROM CASSAVA STALKS	100
FERMENTED PRODUCTS	100
COMPETITIVE POSITION OF CASSAVA	101
 7. Quality control of cassava products	 103
ANALYSIS OF BASIC MATERIALS	103
CRITERIA FOR QUALITY OF FLOUR AND STARCH	107
ANALYSIS OF BAKED PRODUCTS	115
 8. World production and trade of cassava products	 117
EXPORTS	117
IMPORTS	118
DISTRIBUTION AND TRANSPORT	123
RECOMMENDATIONS	123
 9. Development of the cassava-processing industry and its future	 125
PRODUCTION	125
PROCESSING AND MARKETING	126
FUTURE OF THE CASSAVA INDUSTRY	127
 Appendixes	
1. METHODS AND SPECIFICATIONS FOR DETERMINING THE QUALITY OF CASSAVA FLOURS	130
2. SPECIFICATIONS FOR DEXTRIN	135
3. SPECIFICATIONS FOR STARCH	136
4. STANDARDS FOR CASSAVA CHIPS AND MANIOC MEAL IN THAILAND	137
5. LIST OF PROCESSING EQUIPMENT FOR A CASSAVA STARCH FACTORY PRODUCING 24 TONS PER DAY	141
6. FAO STUDIES	143
 References	 147