

Modern Technology Of Milk Processing & Dairy Products (4th Edition)

Author: NIIR Board

Format: Paperback

ISBN: 9788190568579

Code: NI9

Pages: 550

Price: Rs. 1,475.00 US\$ 39.86

Publisher: NIIR PROJECT CONSULTANCY SERVICES

Usually ships within 5 days

The dairy industry plays an important role in our daily life. It is difficult to realize how fast changes are taking place in the dairy industry. Milk is an important human food, it is palatable, easy to digest and highly nutritive. One of the important factors affecting the total amount of milk produced and the way in which this milk is utilized is the demand for the various products. In order to prepare such a diversity of products, many different processes have been developed by the industry. There are numerous types of milk products such as ghee, butter, paneer, cheese, yogurt, ice cream powder, baby cereal food, cream, and so on. Each of these has been designed to take advantage of some particular property of milk. Dairy products are generally defined as food produced from the milk of mammals; they are usually high energy yielding food products. Enzymes play an important role in the production of cheese. Raw milk contains several native enzymes some of which can be used for analytical and quality purposes for example pasteurization can be assessed by determining indigenous alkaline phosphate activity. India is known as the Oyster of the global dairy industry, with opportunities galore to the entrepreneurs globally. Anyone might want to capitalize on the largest and fastest growing milk and milk products market. The dairy industry in India has been witnessing rapid growth. The liberalized economy provides more opportunities for MNCs and foreign investors to release the full potential of this industry. The main aim of the Indian dairy industry is only to better manage the national resources to enhance milk production and upgrade milk processing using innovative technologies. The major contents of the book are cholesterol, coronary heart disease and mil fat, cholesterol and cardio vascular diseases, fatty acids & cholesterol, factors affecting cardio vascular disease, application of enzymes in dairy and food processing, utilisation of milk components: casein, advances in the heat treatment of milk, varieties of sheep's cheese, whey cheese, potted cheese, filled cheese, testing butter at different stages, presentation of butter at different stages, condensed and evaporated milk, dried milk powder, skimmed powder, malted powder, butter powder, ghee yoghurt, technology processing of dairy and dairy products, dried milk shake, milk powder, dahi from sweet cream butter milk, packaging of dairy and milk products, dairy farm, dairy products & milk packaging in pouches, etc. Developments in the dairy industry are enough to justify a revision of a considerable amount of material in this book. This book deals with processes, formulae, project profiles, details of plant, machinery & raw materials with their resources etc. of various dairy products. This book will help all its readers from entrepreneurs to food industries, technocrats and scientists.

Contents

1. Cholesterol, Coronary Heart Disease and Mil Fat
Cholesterol and Cardio Vascular Diseases

Fatty Acids & Cholesterol
Factors Affecting Cardio Vascular Disease
Dietary Recommendations
Conclusion

2. Application of Enzymes in Dairy and Food Processing

Introduction
Enzymes in Dairy Industry
Enzymes in Food Industry

3. Utilisation of Milk Components: Casein

Extraction of Casein from Milk
Properties of Casein from Milk
Composition of Caseinates
Composition of Co-Precipitates
Industrial Uses of Casein
Uses of Rennet Casein

4. Developments in Cream Separation and Processing

Separation and Development in Separators
Vacreation
Consumer Cream Products
Packaging & Presentation of Cream

5. Advances in the Heat Treatment of Milk

Raw Milk
Pasteurisation
Sterilised and UHT Milks
Comparison of Direct/Indirect Processes
Volatile Sulphur components Milk
Flavour Improvement
Nutritional Value
Texture of UHT Milks
Heat Exchanger Fouling
Concluding Remarks

6. Utilisation of Milk Components: Whey

Production
Whey Characteristics
Processing of Whey
Unit Processing and Products
Lactose Production
Conclusion

7. Grading Dairy Produce

Early History
The Separator

8. The Cream Supply

Value of Well Mixed Cream

9. Grading of Milk and Cream

Knowledge Required

Grading Milk

10. Butter Grading

Microflora of the Dairy

Framing for Flavours

Standardise

Grading Statistics

Commercial Grading & Buying

Fixity of Flavour in Butter

Butter Grading

11. Cheese

Hard Varieties

Factors of Viral Importance

Process of Making Cheese

Value of Experiments

Varieties of Sheep's Cheese

Whey Cheese

Potted Cheese

Filled Cheese

12. Refrigeration

Testing Butter at Different Stages

Presentation of Butter at Different Stages

13. Condensed and Evaporated Milk

Dried Milk Powder

Skimmed Powder

Malted Powder

Butter Powder

Ghee

Yoghurt

Cheese

Presentation of Common Defects in Cheese

Processed Cheese

14. Milk

15. Co-Operative Role in Dairy Development

16. Technology Processing of Dairy and Dairy Products

Milk Shake

Combination

Steps in Processing

Dried Milk Shake Milk Powder

Dahi from Sweet Cream Butter Milk

Composition

Acidoptiles Milk

Yoghurt from Butter Milk

Cheddar Cheese from Cow Milk

Cheddar Cheese from Buffalo Milk

Mozzarella Cheese

Cottage Cheese

Surti Cheese
Soft Cheese

17. Packaging of Dairy and Milk Products

Form Fill & Seal (FFS) System

Aseptic System

Butter

18. Baby Cereal Food & Milk Powders

Introduction

Uses & Application

Manufacturing Processes of Milk Powder

Raw Material Supplier

Supplier of Plant & Machinery

19. Confectionery Industry-Semi Automatic Plant

Introduction

Properties

Uses and Application

Formulations

Process of Manufacturing

Suppliers of Plant & Machinery

Suppliers of Raw Materials

20. Condensed Milk (Sweetened)

Introduction

Properties

Uses & Application

Methods of Manufacturing

Address of Raw Materials Suppliers

Address of Plant & Machinery Suppliers

List of Plant & Machinery

21. Dairy Farm

Introduction

Uses & Applications of Milk

Composition of Milk

Manufacturing Process

Refrigeration or Freezing System

Addresses of Complete Plant & Machinery Suppliers

List of Plant & Machinery

22. Dairy Products & Milk Packaging in Pouches

Introduction

Properties

Uses & Application

Manufacturing Process

Suppliers of complete Plant & Machinery

Suppliers of Raw Material

List of Plant & Machinery

23. Flavored Milk

Introduction

Flavouring Essence

Process of Manufacture

Supplier of Plant & Machineries

24. Ice Cream of Different Flavours

Introduction

Process of Manufacture

Complete Plant & Machinery Suppliers

Raw Material Suppliers

25. Milk Powder

Introduction

Composition of Dry Milk Powder

Property of Milk Powder

Process of Manufacture

Suppliers of Raw Materials

Suppliers of Plant & Machinery

26. Milk Toffee Manufactures

Introduction

Formulation

Manufacturing Process

Complete Plant & Machinery Suppliers

Suppliers of Raw Materials

27. Milk Preservation and Marketing to Wholesalers

Introduction

Properties of Milk

Buying & Collection of Milk

Chilling & Transportation of Milk to Processing Station

Manufacturing Process

Suppliers of Raw Material, Plant & Machinery

28. Paneer

Introduction

Nature of cheese

Classification of Cheese

Uses & Applications

Equipment's Required

Process of Manufacture

Plant & Machinery Supplier

Raw Material supplier

29. Directory Section

About NIIR

NIIR PROJECT CONSULTANCY SERVICES (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes various process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

NIIR PROJECT CONSULTANCY SERVICES , 106-E, Kamla Nagar, New Delhi-110007, India. **Email:** npcs.india@gmail.com **Website:** NIIR.org

Wed, 08 May 2024 19:19:59 +0530