



Dairy Processing

**Ramesh C. Chandan, Arun
Kilara, Nagendra P. Shah**



Dairy Processing:

Dairy Processing and Quality Assurance Ramesh C. Chandan, Arun Kilara, Nagendra P. Shah, 2015-10-19 Dairy Processing and Quality Assurance Second Edition describes the processing and manufacturing stages of market milk and major dairy products from the receipt of raw materials to the packaging of the products including the quality assurance aspects. The book begins with an overview of the dairy industry, dairy production and consumption trends. Next are discussions related to chemical, physical and functional properties of milk, microbiological considerations involved in milk processing, regulatory compliance, transportation to processing plants and the ingredients used in manufacture of dairy products. The main section of the book is dedicated to processing and production of fluid milk products, cultured milk including yogurt, butter and spreads, cheese, evaporated and condensed milk, dry milks, whey and whey products, ice cream and frozen desserts, chilled dairy desserts, nutrition and health, sensory evaluation, new product development strategies, packaging systems, non-thermal preservation technologies, safety and quality management systems and dairy laboratory analytical techniques. This fully revised and updated edition highlights the developments which have taken place in the dairy industry since 2008. The book notably includes New regulatory developments, The latest market trends, New processing developments particularly with regard to yogurt and cheese products, Functional aspects of probiotics, prebiotics and synbiotics. A new chapter on the sensory evaluation of dairy products. Intended for professionals in the dairy industry, Dairy Processing and Quality Assurance Second Edition will also appeal to researchers, educators and students of dairy science for its contemporary information and experience-based applications.

Dairy Processing and Quality Assurance Ramesh C. Chandan, Arun Kilara, Nagendra P. Shah, 2009-03-03 Dairy Processing and Quality Assurance gives a complete description of the processing and manufacturing stages of market milk and major dairy products from the receipt of raw materials to the packaging of the products including quality assurance aspects. Coverage includes fluid milk products, cultured milk and yogurt, butter and spreads, cheese, evaporated and condensed milk, dry milks, whey and whey products, ice cream and frozen desserts, refrigerated desserts, nutrition and health, new product development strategies, packaging systems and non-thermal preservation technologies, safety and quality management systems and dairy laboratory analysis.

Dairy Processing G Smit, 2003-07-29 The dairy sector continues to be at the forefront of innovation in food processing. With its distinguished editor and international team of contributors, Dairy processing: improving quality reviews key developments and their impact on product safety and quality. The first two chapters of part one provide a foundation for the rest of the book, summarising the latest research on the constituents of milk and reviewing how agricultural practice influences the quality of raw milk. This is followed by three chapters on key aspects of safety, good hygienic practice, improvements in pasteurisation and sterilisation and the use of modelling to assess the effectiveness of pasteurisation. A final sequence of chapters in part one discuss aspects of product quality from flavour, texture, shelf life and authenticity to the increasingly important area of functional dairy products. Part two

reviews some of the major technological advances in the sector The first two chapters discuss developments in on line control of process efficiency and product quality They are followed by chapters on new technologies to improve qualities such as shelf life including high pressure processing drying and the production of powdered dairy products and the use of dissolved carbon dioxide to extend the shelf life of milk Part three looks in more detail at key advances in cheese manufacture Dairy processing improving quality is a standard reference for the dairy industry in improving process efficiency and product quality Reviews key developments in dairy food processing and their impact on product safety and quality Summarises the latest research on the constituents of milk and reviews how agricultural practice influences the quality of raw milk Outlines the key aspects of safety good hygienic practice improvements in pasteurisation and sterilisation and the use of modelling to assess the effectiveness of pasteurisation Emerging Dairy Processing Technologies Nivedita Datta,Peggy M.

Tomasula,2015-07-01 Fluid milk processing is energy intensive with high financial and energy costs found all along the production line and supply chain Worldwide the dairy industry has set a goal of reducing GHG emissions and other environmental impacts associated with milk processing Although the major GHG emissions associated with milk production occur on the farm most energy usage associated with milk processing occurs at the milk processing plant and afterwards during refrigerated storage a key requirement for the transportation retail and consumption of most milk products Sustainable alternatives and designs for the dairy processing plants of the future are now being actively sought by the global dairy industry as it seeks to improve efficiency reduce costs and comply with its corporate social responsibilities Emerging Dairy Processing Technologies Opportunities for the Dairy Industry presents the state of the art research and technologies that have been proposed as sustainable replacements for high temperature short time HTST and ultra high temperature UHT pasteurization with potentially lower energy usage and greenhouse gas emissions These technologies include pulsed electric fields high hydrostatic pressure high pressure homogenization ohmic and microwave heating microfiltration pulsed light UV light processing and carbon dioxide processing The use of bacteriocins which have the potential to improve the efficiency of the processing technologies is discussed and information on organic and pasture milk which consumers perceive as sustainable alternatives to conventional milk is also provided This book brings together all the available information on alternative milk processing techniques and their impact on the physical and functional properties of milk written by researchers who have developed a body of work in each of the technologies This book is aimed at dairy scientists and technologists who may be working in dairy companies or academia It will also be highly relevant to food processing experts working with dairy ingredients as well as university departments research centres and graduate students Setting up and running a small-scale dairy processing business Fellows, P,Axtell, B.,2008-01-01 Food processing offers excellent income generating opportunities for those wishing to start up in business With this in mind this comprehensive manual provides a detailed description of how to process milk into a variety of dairy products including cheese and milk confectionary Topics

covered include markets equipment and facilities managing a dairy and health and safety issues The guide should be read in conjunction with volume 1 in the series see 1041 which introduces aspects such as technical know how business skills and customer care

Dairy Production and Processing John R. Campbell, Robert T. Marshall, 2016-01-29 A productive dairy industry is vital to providing safe high quality milk that fulfills the nutritional needs of people of all ages around the world In order to achieve that goal Campbell and Marshall present a timely lucid and comprehensive look at today's dairy industry Dairy Production and Processing offers not only a fundamental understanding of dairy animals dairy products and the production aspects of each but also a wealth of applied information on the scope of the current milk and milk products industry The application of basic sciences and technologies throughout the text will serve students well not only as they learn the first principles of dairy science but also as a professional reference in their careers Study questions can be found at the conclusion of each chapter along with relevant and informative websites An extensive glossary is provided to enable readers to expand their knowledge of selected terms Topics found in this instructive and insightful text include an overview of the dairy industry dairy herd breeding and records the feeding and care of dairy cattle sheep goats and water buffalo important principles of milking and milking facilities dairy farm management milk quality and safety and the production of milk and milk products

Dairy Ingredients for Food Processing Ramesh C. Chandan, Arun Kilara, 2011-03-15 The objective of this book is to provide a single reference source for those working with dairy based ingredients offering a comprehensive and practical account of the various dairy ingredients commonly used in food processing operations The Editors have assembled a team of 25 authors from the United States Australia New Zealand and the United Kingdom representing a full range of international expertise from academic industrial and government research backgrounds After introductory chapters which present the chemical physical functional and microbiological characteristics of dairy ingredients the book addresses the technology associated with the manufacture of the major dairy ingredients focusing on those parameters that affect their performance and functionality in food systems The popular applications of dairy ingredients in the manufacture of food products such as dairy foods bakery products processed cheeses processed meats chocolate as well as confectionery products functional foods and infant and adult nutritional products are covered in some detail in subsequent chapters Topics are presented in a logical and accessible style in order to enhance the usefulness of the book as a reference volume It is hoped that Dairy Ingredients for Food Processing will be a valuable resource for members of academia engaged in teaching and research in food science regulatory personnel food equipment manufacturers and technical specialists engaged in the manufacture and use of dairy ingredients Special features Contemporary description of dairy ingredients commonly used in food processing operations Focus on applications of dairy ingredients in various food products Aimed at food professionals in R D QA QC manufacturing and management World wide expertise from over 20 noted experts in academe and industry

Non-Thermal Processing Technologies for the Dairy Industry M. Selvamuthukumaran, Sajid Maqsood, 2021-11-08

The dairy industry usually adopts conventional methods of processing various milk based food products which can destroy nutrients and minimize organoleptic qualities. An alternative approach for this is the non conventional method of non thermal processing techniques. Not only does this enhance the nutritional profile of the various processed products but increases the consumer acceptability. There are some emerging non thermal processing techniques such as pulsed light cold plasma high pressure processing ultrasonic UV pasteurization or ozone treatments which can be successfully employed in dairy processing industries to enhance product acceptability safety and quality aspects.

Non Thermal Processing Technologies for the Dairy Industry describes several emerging non thermal processing techniques that can be specially employed for the dairy processing industry. The book narrates the benefits of using pulsed light cold plasma high pressure and ultrasonic during processing of various dairy products. Key Features: Addresses techniques used for extraction of functional food components from various dairy products by using super critical CO₂ extraction technology. Explains application of ozone and cold plasma technology for treating dairy processing waste waters with efficient recycling aspects. Discusses the importance of using biopreservatives in shelf life extension of several dairy food products. Portrays scope and significant importance of adopting UV pasteurization in processing market milk along with safety and environmental impacts over processing. This book solves the issue of waste generation in dairy industries and further advises recovery of such waste for efficient recycling process. In addition to being useful for dairy technologists it is a great source for academic scholars and students looking to gain knowledge and excel in the non thermal processing area.

Energy Efficiency and Management in Food Processing Facilities Lijun Wang, 2008-12-04. Energy efficiency environmental protection and processing waste management continue to attract increased attention in the food processing industry. As with other industrial sectors reducing costs while also reducing environmental impact and improving overall sustainability is becoming an important part of the business process. Providing practical

Novel Dairy Processing Technologies Megh R. Goyal, Anit Kumar, Anil K. Gupta, 2018-03-14. Milk is nature's perfect food lacking only iron copper and vitamin C and is highly recommended by nutritionists for building healthy bodies. New technologies have emerged in the processing of milk. This new volume focuses on the processing of milk by novel techniques emphasizing the conservation of energy and effective methods. This book is divided into four parts that cover applications of novel processing technologies in the dairy industry novel drying techniques in the dairy industry management systems and hurdles in the dairy industry energy conservation and opportunities in the dairy industry. This book presents new information on the technology of ohmic heating for milk pasteurization. It goes on to provide an overview of the commercial thermal non thermal technologies and hybrid technologies for milk pasteurization. There are non thermal technologies such as pulse light irradiation ultra violet treatment etc that can be used in combination with other technologies for the processing of milk and milk products. This hybrid technology can provide multiple benefits such as extended shelf life reduced energy costs reduced heat treatment and better organoleptic and sensory properties. The book also describes the different aspects of food

safety management used in dairy processing The book also looks at recent advances in microwave assisted thermal processing of milk and the effects of microwaves on microbiological physicochemical and organoleptic properties of processed milk and milk products Technological advances in value addition and standardization of the products have been reported but well established processes for mechanized production are recommended in the book for a uniform quality nutritious product produced under hygienic conditions This new volume will be of interest to faculty researchers postgraduate students researchers as well as engineers in the dairy industry

Dairy Processing: Advanced Research to Applications Jagrani Minj, Aparna Sudhakaran V, Anuradha Kumari, 2020-04-10 This book focuses on advanced research and technologies in dairy processing one of the most important branches of the food industry It addresses various topics ranging from the basics of dairy technology to the opportunities and challenges in the industry Following an introduction to dairy processing the book takes readers through various aspects of dairy engineering such as dairy based peptides novel milk products and bio fortification It also describes the essential role of microorganisms in the industry and ways to detect them as well as the use of prebiotics and food safety Lastly the book examines the challenges faced especially in terms of maintaining quality across the supply chain Covering all significant areas of dairy science and processing this interesting and informative book is a valuable resource for post graduate students research scholars and industry experts

Technological Approaches for Novel Applications in Dairy Processing Nurcan Koca, 2018-06-20 Technological innovations customer expectations and economical situations have been forcing the dairy industry to adapt to changes in technologies and products The goal of this book is to present some new approaches on dairy processing It will provide several applications on the use of some novel technologies in various dairy products the improvement of functionalities and quality systems of dairy products and the advances in dairy wastewater treatment The book will be useful for both practicing professionals and researchers in the dairy field I would like to send my sincere thanks to all the authors for their hard work and contributions

Principles of Dairy Processing James N. Warner, 1976

Microbiology in Dairy Processing Palmiro Poltronieri, 2017-09-14 An authoritative guide to microbiological solutions to common challenges encountered in the industrial processing of milk and the production of milk products Microbiology in Dairy Processing offers a comprehensive introduction to the most current knowledge and research in dairy technologies and lactic acid bacteria LAB and dairy associated species in the fermentation of dairy products The text deals with the industrial processing of milk the problems solved in the industry and those still affecting the processes The authors explore culture methods and species selective growth media to grow separate and characterize LAB and dairy associated species molecular methods for species identification and strains characterization Next Generation Sequencing for genome characterization comparative genomics phenotyping and current applications in dairy and non dairy productions In addition Microbiology in Dairy Processing covers the Lactic Acid Bacteria and dairy associated species the beneficial microorganisms used in food fermentation processes

culture methods phenotyping and proven applications in dairy and non dairy productions The text also reviews the potential future exploitation of the culture of novel strains with useful traits such as probiotics fermentation of sugars metabolites produced bacteriocins This important resource Offers solutions both established and novel to the numerous challenges commonly encountered in the industrial processing of milk and the production of milk products Takes a highly practical approach tackling the problems faced in the workplace by dairy technologists Covers the whole chain of dairy processing from milk collection and storage through processing and the production of various cheese types Written for laboratory technicians and researchers students learning the protocols for LAB isolation and characterisation Microbiology in Dairy Processing is the authoritative reference for professionals and students **Dairy Processing Handbook** ,2015 **Cleaner Production Assessment in Dairy Processing** COWI Consulting Engineers and Planners,United Nations Environment Programme. Division of Technology, Industry, and Economics,2000 *Handbook of Industrial and Hazardous Wastes Treatment* Lawrence K. Wang,Yung-Tse Hung,Howard H. Lo,Constantine Yapijakis,2004-06-29 Presenting effective practicable strategies modeled from ultramodern technologies and framed by the critical insights of 78 field experts this vastly expanded Second Edition offers 32 chapters of industry and waste specific analyses and treatment methods for industrial and hazardous waste materials from explosive wastes to landfill leachate to w *Library of Congress Subject Headings* Library of Congress,Library of Congress. Subject Cataloging Division,1980 **Milk Processing and Dairy Products Industry** ,2025-09-03 Milk Processing and Dairy Products Industry offers a comprehensive overview of the processing and manufacturing stages involved in transforming milk into a wide range of dairy products from the reception of raw materials to final packaging It also addresses key aspects of quality assurance and food safety As a unique and authoritative reference this book bridges the gap between theoretical foundations and real world applications It provides readers with a thorough understanding of the technologies processes and quality standards that shape today s dairy industry This unique book presents the latest research on preservation methods in the dairy industry covering both thermal and non thermal technologies as well as fermentation processes The book also explores the physicochemical and microbiological quality of dairy products derived not only from cow s milk but also from other mammalian sources such as goat milk Each chapter has been carefully crafted by experienced dairy scientists ensuring both scientific rigor and practical relevance throughout the volume Topics discussed include Thermal and non thermal milk processing technologies in the dairy industry Producing and characterizing dairy powders Innovative approaches to minimize waste and optimize resource use in milk processing Precision fermentation can create dairy identical proteins Goat milk s nutritional profile and quality traits Hygiene and compositional quality of raw cow milk **Milk Processing and Quality Management** Adnan Y. Tamime,2009-01-30 The Society of Dairy Technology SDT has joined with Wiley Blackwell to produce a series of technical dairy related handbooks providing an invaluable resource for all those involved in the dairy industry from practitioners to

technologists working in both traditional and modern large scale dairy operations The fifth volume in the series Milk Processing and Quality Management provides timely and comprehensive guidance on the processing of liquid milks by bringing together contributions from leading experts around the globe This important book covers all major aspects of hygienic milk production storage and processing and other key topics such as Microbiology of raw and market milks Quality control International legislation Safety HACCP in milk processing All those involved in the dairy industry including food scientists food technologists food microbiologists food safety enforcement personnel quality control personnel dairy industry equipment suppliers and food ingredient companies should find much of interest in this commercially important book which will also provide libraries in dairy and food research establishments with a valuable reference for this important area

Dairy Procebing Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Dairy Procebing**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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