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KEY=TECHNOLOGY - HARVEY SHANE

TECHNOLOGY OF DAIRY PRODUCTS

Springer Science & Business Media This second, revised edition of **The technology of dairy products continues to explain methods of milk product manufacture, the technology involved, and how other influences affect finished products.**

DAIRY SCIENCE AND TECHNOLOGY, SECOND EDITION

CRC Press Building upon the scope of its predecessor, **Dairy Science and Technology, Second Edition** offers the latest information on the efficient transformation of milk into high-quality products. It focuses on the principles of physical, chemical, enzymatic, and microbial transformations. The authors, highly regarded educators and researchers, divide the content of this book into four parts. Part I, Milk, discusses the chemistry, physics, and microbiology of milk. In addition to providing knowledge of milk properties, this section forms the basis for understanding what happens during processing, handling, and storage. Part II, Processes, illustrates the main unit operations used to manufacture milk products and highlights the influence certain product and process variables have on resulting products. In Part III, Products, the book integrates information on raw materials and processing as they relate to the manufacture of products. This section also explains the procedures necessary to ensure consumer safety, product quality, and process efficiency. Part IV, Cheese, describes the processes and transformations (physical, biochemical, and microbial) relating to the manufacture and ripening of cheese, starting with generic aspects and later discussing specific groups of cheeses. An important resource, **Dairy Science and Technology, Second Edition** provides a thorough understanding of milk's composition and properties and the changes that occur in milk and its products during processing and storage.

THE TECHNOLOGY OF DAIRY PRODUCTS

DAIRY FATS AND RELATED PRODUCTS

John Wiley & Sons Whilst milk fat has always been appreciated for its flavour, the market had suffered from concerns over cardiovascular diseases associated with the consumption of animal fats. However, recent clinical studies have indicated benefits, particularly in relation to conjugated linoleic acids (CLA), in the prevention of certain diseases. The range of spreads has also increased, including the addition of probiotic organisms and/or plant extracts to reduce serum cholesterol levels. The primary aim of this publication is to detail the state-of-the-art manufacturing methods for: Cream Butter Yellow fat spreads, both pure milk fat based and mixtures with other fats Anhydrous milk fat and its derivatives Coverage of the manufacturing technologies is complemented by examinations of the relevant nutrition issues and analytical methods. The authors, who are all specialists in their fields in respect to these products, have been chosen from around the world. It is hoped that the book will provide a valuable reference work for dairy scientists and technologists within the dairy industry and those with similar processing requirements, as well as researchers and students, thus becoming an important component of the SDT's Technical Series. The Editor Dr Adnan Y. Tamime is a Consultant in Dairy Science and Technology, Ayr, UK. He is the Series Editor of the SDT's Technical Book Series. For information regarding the SDT, please contact Maurice Walton, Executive Director, Society of Dairy Technology, P.O. Box 12, Appleby in Westmorland CA16 6YJ, UK. email: execdirector@sdt.org Also available from Wiley-Blackwell Milk Processing and Quality Management Edited by A.Y. Tamime ISBN 978 1 4051 4530 5 Cleaning-in-Place Edited by A.Y. Tamime ISBN 978 1 4051 5503 8 Advanced Dairy Science and Technology Edited by T. Britz and R. Robinson ISBN 978 1 4051 3618 1 International Journal of Dairy Technology Published quarterly Print ISSN: 1364 727X Online ISSN: 1471 0307

STRUCTURE OF DAIRY PRODUCTS

John Wiley & Sons **Structure of Dairy Products SOCIETY OF DAIRY TECHNOLOGY SERIES** Edited by A. Y. Tamime The Society of Dairy Technology (SDT) has joined with Blackwell Publishing 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 previous 30 years have witnessed great interest in the microstructure of dairy products, which has a vital bearing on, e.g. texture, sensory qualities, shelf life and packaging requirements of dairy foods. During the same period, new techniques have been developed to visualise clearly the properties of these products. Hence, scanning electron microscopy (SEM) and

transmission electron microscopy (TEM) have been used as complimentary methods in quality appraisal of dairy products, and are used for product development and in trouble shooting wherever faults arise during manufacturing. **Structure of Dairy Products**, an excellent new addition to the increasingly well-known and respected SDT series, offers the reader: • information of importance in product development and quality control • internationally known contributing authors and book editor • thorough coverage of all major aspects of the subject • core, commercially useful knowledge for the dairy industry Edited by Adnan Tamime, with contributions from international authors, this book is an essential purchase for dairy scientists and technologists, food scientists and technologists, food chemists, physicists, rheologists and microscopists. Libraries in all universities and research establishments teaching and researching in these areas should have copies of this important work on their shelves.

MODERN DAIRY TECHNOLOGY

VOLUME 2 ADVANCES IN MILK PRODUCTS

Springer Science & Business Media As with the products and processes described in Volume 1 of this book, many of the technical changes associated with, for example, the manufacture of cheeses or fermented milks have been subtle rather than dramatic. Nonetheless, the importance for the dairy industry has often been profound. The market demand for dairy products containing 'health-promoting' cultures is a development that was barely discernible 10 years ago, and yet many manufacturers are now generating a whole range of bio-yoghurts and similar retail items. Similarly, the legislation covering food hygiene has been modified to place additional demands upon manufacturers, a move that has in turn encouraged the further development of analytical methods for quality control. These modifications to manufacturing practices are, along with many others, reflected in this second edition, and I acknowledge with gratitude the enthusiastic co-operation of all the authors associated with this project in bringing their disparate contributions up-to-date. R. K. ROBINSON v Preface to the First Edition Retail sales of most dairy products are still on the increase world-wide, and this expansion is, at least in part, a reflection of the fact that prices have tended to remain at a competitive level.

ROBINSON: MODERN DAIRY TECHNOLOGY

VOLUME 1 ADVANCES IN MILK PROCESSING

Springer Science & Business Media The dairy industry is, in many countries, a major contributor to the manufacturing capacity of the food sector, and as more components of milk are utilised in processed foods, so this importance is likely to grow. Already dairy operations range from the straightforward handling of liquid milk through to the production of highly sophisticated consumer items, and it is of note that all this activity is based on a raw material that is readily perishable at ambient temperatures. This competitive, commercial position, together with the fact that the general public has a high regard for dairy products, is an indication of the extent to which milk producers and processors have combined to ensure that retail products are both nutritious and hygienically acceptable. Achievement of these aims, and at reasonable cost, has depended in large measure on the advances that have been made in the handling of large volumes of milk. Thus, factories designed to handle millions of litres of milk per week are now commonplace, and it is the plant and equipment involved that provides the factual background for this two-volume book.

HANDBOOK OF PLANT FOOD PHYTOCHEMICALS

SOURCES, STABILITY AND EXTRACTION

John Wiley & Sons Phytochemicals are plant derived chemicals which may bestow health benefits when consumed, whether medicinally or as part of a balanced diet. Given that plant foods are a major component of most diets worldwide, it is unsurprising that these foods represent the greatest source of phytochemicals for most people. Yet it is only relatively recently that due recognition has been given to the importance of phytochemicals in maintaining our health. New evidence for the role of specific plant food phytochemicals in protecting against the onset of diseases such as cancers and heart disease is continually being put forward. The increasing awareness of consumers of the link between diet and health has exponentially increased the number of scientific studies into the biological effects of these substances. The Handbook of Plant Food Phytochemicals provides a comprehensive overview of the occurrence, significance and factors affecting phytochemicals in plant foods. A key objective of the book is to critically evaluate these aspects. Evaluation of the evidence for and against the quantifiable health benefits being imparted as expressed in terms of the reduction in the risk of disease conferred through the consumption of foods that are rich in phytochemicals. With world-leading editors and contributors, the Handbook of Plant Food Phytochemicals is an invaluable, cutting-edge resource for food scientists, nutritionists and plant biochemists. It covers the processing techniques aimed at the production of phytochemical-rich foods which can have a role in disease-prevention, making it ideal for both the food industry and those who are researching the health benefits of particular foods. Lecturers and advanced students will find it a helpful and readable guide to a constantly expanding subject area.

DAIRY PROCESSING AND QUALITY ASSURANCE

John Wiley & Sons 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;

ENGINEERING ASPECTS OF MILK AND DAIRY PRODUCTS

CRC Press Expert Insight into the Engineering Aspects of Dairy Products Manufacturing Consumer demand is constantly on the rise for better and more nutritious dairy products, from traditional milk to new, high-value added products like meal-replacement drinks. This changing market preference reinforces the importance of milk as a raw material in the food industry

DEVELOPMENT AND MANUFACTURE OF YOGURT AND OTHER FUNCTIONAL DAIRY PRODUCTS

CRC Press While the science of yogurt is nearly as old as the origin of mankind, there have been rapid changes in yogurt development since the turn of the 19th century, fueled by continuing developments in biological sciences. Development and Manufacture of Yogurt and Other Functional Dairy Products presents a comprehensive review of all aspects of yogurt and other fermented dairy foods, including production, processing, preparation, regulations, and health aspects. Condensing more than 12,000 pages of recently published literature, expert contributors, including several clinicians, address the most recent developments in probiotics and the interaction between yogurt and immunological and intestinal bowel diseases. They explain how beneficial and harmful bacteria are colonized in the human intestinal system and how those bacteria can either strengthen or weaken immunological functions. This resource also explores the little-known varieties of functional dairy products - such as ayran, kefir, koumiss, cacik, and tarator - that are currently only consumed in small parts of the world but that are likely to reach supermarkets worldwide in the not-so-distant future. Development and Manufacture of Yogurt and Other Functional Dairy Products presents the most recent developments in biosciences and their applications in yogurt-human health interactions. The depth and breadth of coverage make this book an indispensable reference for those involved with the research and manufacturing of milk and dairy products.

HANDBOOK OF FOOD SCIENCE, TECHNOLOGY, AND ENGINEERING

CRC Press

DAIRY TECHNOLOGY

PRINCIPLES OF MILK PROPERTIES AND PROCESSES

CRC Press Describes the efficient transformation of milk into a variety of products, focusing on the changes in raw material, and intermediate and final products, as well as the interactions between products and processing equipment. The book details the procedures for ensuring processing efficiency and product quality.

MODERNIZATION OF TRADITIONAL FOOD PROCESSES AND PRODUCTS

Springer This volume of the Trilogy of Traditional Foods, part of the ISEKI Food Series, describes important aspects of the production of foods and beverages from all over the globe. The intention of this volume is to provide readers with an appreciation of how products were initially made, and which factors have shaped their development over time. Some modern products have remained local, while others are commodities that appear in peoples' cabinets all over the world. Modernization of Traditional Food Processes and Products is divided into two sections. The first section focuses on products originating in Europe, while the second section is a collection of products from the rest of the world. Each chapter describes the origin of a particular food or beverage and discusses the changes and the science that led to the modern products found on supermarket shelves. The international List of Contributors, which includes authors from China, Thailand, India, Argentina, New Zealand, and the United Kingdom, attests to the international collaboration for which the ISEKI Food Series is known. The volume is intended for both the practicing food professional and the interested reader.

MODERN DAIRY TECHNOLOGY, VOLUME 2: ADVANCES IN MILK PRODUCTS

Springer

ADVANCED DAIRY CHEMISTRY, VOLUME 2

LIPIDS

Springer Nature The Advanced Dairy Chemistry series was first published in four volumes in the 1980s (under the title Developments in Dairy Chemistry) and revised in three volumes in the 1990s and 2000s. The series is the leading reference on dairy chemistry, providing in-depth coverage of milk proteins, lipids, lactose, water and minor constituents. Advanced Dairy Chemistry Volume 2: Lipids, Fourth Edition, is unique in the literature on milk lipids, a broad field that encompasses a diverse range of topics, including synthesis of fatty acids and acylglycerols, compounds associated with the milk fat fraction, analytical aspects, behavior of lipids during processing and their effect on product characteristics, product defects arising from lipolysis and oxidation of lipids, as well as nutritional significance of milk lipids. In the years since the publication of the third edition there have been significant developments in milk lipids and these are reflected in changes to this volume. Most topics included in the third edition are retained in the current edition, which has been updated; in some cases, new authors have given their perspective on certain topics. Chapters on nutritional significance of dairy lipids have been considerably revised. This authoritative work summarizes current knowledge on milk lipids and suggests areas for further work. It will be very valuable to dairy scientists,

chemists and others working in dairy research or in the dairy industry.

FOOD BIOCHEMISTRY AND FOOD PROCESSING

John Wiley & Sons The biochemistry of food is the foundation on which the research and development advances in food biotechnology are built. In *Food Biochemistry and Food Processing, Second Edition*, the editors have brought together more than fifty acclaimed academicians and industry professionals from around the world to create this fully revised and updated edition. This book is an indispensable reference and text on food biochemistry and the ever increasing developments in the biotechnology of food processing. Beginning with sections on the essential principles of food biochemistry, enzymology, and food processing, the book then takes the reader on commodity-by-commodity discussions of biochemistry of raw materials and product processing. Chapters in this second edition have been revised to include safety considerations and the chemical changes induced by processing in the biomolecules of the selected foodstuffs. This edition also includes a new section on health and functional foods, as well as ten new chapters including those on thermally and minimally processed foods, separation technology in food processing, and food allergens. *Food Biochemistry and Food Processing, second edition* fully develops and explains the biochemical aspects of food processing, and brings together timely and relevant topics in food science and technology in one package. This book is an invaluable reference tool for professional food scientists, researchers and technologists in the food industry, as well as faculty and students in food science, food technology and food engineering programs. The Editor Dr. Benjamin K. Simpson, Department of Food Science and Agricultural Chemistry, McGill University, Quebec, Canada Associate Editors Professor Leo Nollet, Department of Applied Engineering Sciences, Hogeschool Ghent, Belgium Professor Fidel Toldrá, Instituto de Agroquímica y Tecnología de Alimentos (CSIC), Valencia, Spain Professor Soottawat Benjakul, Department of Food Technology, Prince of Songkla University, Songkhla, Thailand Professor Gopinadhan Paliyath, Department of Plant Agriculture, University of Guelph, Ontario, Canada Dr. Y. H. Hui, Consultant to the Food Industry, West Sacramento, California, USA

ADVANCED DAIRY CHEMISTRY VOLUME 2: LIPIDS

Springer Science & Business Media The *Advanced Dairy Chemistry* series was first published in four volumes in the 1980s (under the title *Developments in Dairy Chemistry*) and revised in three volumes in the 1990s. The series is the leading reference on dairy chemistry, providing in-depth coverage of milk proteins, lipids, lactose, water and minor constituents. *Advanced Dairy Chemistry Volume 2: Lipids, Third Edition*, is unique in the literature on milk lipids, a broad field that encompasses a diverse range of topics, including synthesis of fatty acids and acylglycerols, compounds associated with the milk fat fraction, analytical aspects, behavior of lipids during processing and their effect on product characteristics, product defects arising from lipolysis and oxidation of lipids, as well as nutritional significance of milk lipids. Most topics included in the second edition are retained in the current edition, which has been updated and considerably expanded. New chapters cover the following subjects: Biosynthesis and nutritional significance of conjugated linoleic acid, which has assumed major significance during the past decade; Formation and biological significance of oxysterols; The milk fat globule membrane as a source of nutritionally and technologically significant products; Physical, chemical and enzymatic modification of milk fat; Significance of fat in dairy products: creams, cheese, ice cream, milk powders and infant formulae; Analytical methods: chromatographic, spectroscopic, ultrasound and physical methods. This authoritative work summarizes current knowledge on milk lipids and suggests areas for further work. It will be very valuable to dairy scientists, chemists and others working in dairy research or in the dairy industry.

DAIRY FAT PRODUCTS AND FUNCTIONALITY

FUNDAMENTAL SCIENCE AND TECHNOLOGY

Springer Nature This work highlights a new research area driven by a material science approach to dairy fats and dairy fat-rich products where innovative dairy products and ingredients can be tailor-made. Cutting edge topics such as tribology of dairy fats and dairy products, manipulation of differentiated-sized milk fat globules, milk fat interesterification for infant formula, structuring of lipids in dairy products and production of human milk fat substitutes by including dairy fats are featured in dedicated chapters authored by international scientific experts from across the globe. The text also presents in-depth research on proteomic characterization, digestion and the nutritional functionality of milk fat globule membrane. The biosynthesis, chemistry, digestion and nutritional roles of milk lipids, physics of dairy fats, structure and functionality of the milk fat globule membrane, analytical methods, materials science, technology and manufacturing of dairy fat-rich products such as butter, dairy fat spreads, dairy creams, cream powders and ghee are also covered in-depth. *Dairy Fat Products and Functionality: Fundamental Science and Technology* is a useful reference text for technologists and scientists interested in advancing their fundamental knowledge of dairy fat and dairy products as well as using a materials science and technology approach to guide efforts or widen research opportunities in optimizing the functionality of these products. From their physics and chemistry to their nutritional values and methodologies, this comprehensive and innovative text covers all the necessary information needed to understand the new methods and technologies driving the modern production of milk fat products.

ULLMANN'S FOOD AND FEED, 3 VOLUME SET

John Wiley & Sons A compilation of 58 carefully selected, topical articles from the *Ullmann's Encyclopedia of Industrial*

Chemistry, this three-volume handbook provides a wealth of information on economically important basic foodstuffs, raw materials, additives, and processed foods, including a section on animal feed. It brings together the chemical and physical characteristics, production processes and production figures, main uses, toxicology and safety information in one single resource. More than 40 % of the content has been added or updated since publication of the 7th edition of the Encyclopedia in 2011 and is available here in print for the first time. The result is a "best of Ullmann's", bringing the vast knowledge to the desks of professionals in the food and feed industries.

ENCYCLOPEDIA OF DAIRY SCIENCES

Academic Press Dairy Science includes the study of milk and milk-derived food products, examining the biological, chemical, physical, and microbiological aspects of milk itself as well as the technological (processing) aspects of the transformation of milk into its various consumer products, including beverages, fermented products, concentrated and dried products, butter and ice cream. This new edition includes information on the possible impact of genetic modification of dairy animals, safety concerns of raw milk and raw milk products, peptides in milk, dairy-based allergies, packaging and shelf-life and other topics of importance and interest to those in dairy research and industry. Fully reviewed, revised and updated with the latest developments in Dairy Science Full color inserts in each volume illustrate key concepts Extended index for easily locating information

LIPID TECHNOLOGIES AND APPLICATIONS

CRC Press "Provides a comprehensive review of the major technologies and applications of lipids in food and nonfood uses, including current and future trends. Discusses the nature of lipids, their major sources, and role in nutrition."

FUNDAMENTALS OF DAIRY CHEMISTRY

Springer Science & Business Media Fundamentals of Dairy Chemistry has always been a reference text which has attempted to provide a complete treatise on the chemistry of milk and the relevant research. The third edition carries on in that format which has proved successful over four previous editions (Fundamentals of Dairy Science 1928, 1935 and Fundamentals of Dairy Chemistry 1965, 1974). Not only is the material brought up-to-date, indeed several chapters have been completely re-written, but attempts have been made to streamline this edition. In view of the plethora of research related to dairy chemistry, authors were asked to reduce the number of references by eliminating the early, less significant ones. In addition, two chapters have been replaced with subjects which we felt deserved attention: "Nutritive Value of Dairy Foods" and "Chemistry of Processing. " Since our society is now more attuned to the quality of the food it consumes and the processes necessary to preserve that quality, the addition of these topics seemed justified. This does not minimize the importance of the information in the deleted chapters, "Vitamins of Milk" and "Frozen Dairy Products. " Some of the material in these previous chapters has been incorporated into the new chapters; furthermore, the information in these chapters is available in the second edition, as a reprint from ADSA (Vitamins in Milk and Milk Products, November 1965) or in the many texts on ice cream manufacture.

DAIRY CHEMISTRY AND BIOCHEMISTRY

Springer This book is the most comprehensive introductory text on the chemistry and biochemistry of milk. It provides a comprehensive description of the principal constituents of milk (water, lipids, proteins, lactose, salts, vitamins, indigenous enzymes) and of the chemical aspects of cheese and fermented milks and of various dairy processing operations. It also covers heat-induced changes in milk, the use of exogenous enzymes in dairy processing, principal physical properties of milk, bioactive compounds in milk and comparison of milk of different species. This book is designed to meet the needs of senior students and dairy scientists in general.

DAIRY SCIENCE AND TECHNOLOGY

PRINCIPLES AND APPLICATIONS

Presses Université Laval

MICROBIOLOGY IN DAIRY PROCESSING

CHALLENGES AND OPPORTUNITIES

John Wiley & Sons 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 AND QUALITY ASSURANCE

John Wiley & Sons 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.

ADVANCED DAIRY CHEMISTRY-2

LIPIDS

Springer Science & Business Media Until relatively recently, milk was valued mainly for its fat content. Although their importance in milk products has decreased, milk lipids have many interesting, even unique, functional and organoleptic properties and are still the subject of considerable research. This is a comprehensive book covering the chemical, physical and rheological properties of milk lipids, their status as an emulsion in milk and milk products, their biosynthesis, chemical stability, nutritional aspects and their role in consumer acceptability of dairy products.

MICROSTRUCTURE OF DAIRY PRODUCTS

John Wiley & Sons Provides the most recent developments in microscopy techniques and types of analysis used to study the microstructure of dairy products This comprehensive and timely text focuses on the microstructure analyses of dairy products as well as on detailed microstructural aspects of them. Featuring contributions from a global team of experts, it offers great insight into the understanding of different phenomena that relate to the functional and biochemical changes during processing and subsequent storage. Structured into two parts, *Microstructure of Dairy Products* begins with an overview of microscopy techniques and software used for microstructural analyses. It discusses, in detail, different types of the following techniques, such as: light microscopy (including bright field, polarized, and confocal scanning laser microscopy) and electron microscopy (mainly scanning and transmission electron microscopy). The description of these techniques also includes the staining procedures and sample preparation methods developed. Emerging microscopy techniques are also covered, reflecting the latest advances in this field. Part 2 of the book focuses on the microstructure of various dairy foods, dividing each into sections related to the microstructure of milk, cheeses, yogurts, powders, and fat products, ice cream and frozen dairy desserts, dairy powders and selected traditional Indian dairy products. In addition, there is a review of the localization of microorganism within the microstructure of various dairy products. The last chapter discusses the challenges and future trends of the microstructure of dairy products. Presents complete coverage of the latest developments in dairy product microscopy techniques Details the use of microscopy techniques in structural analysis An essential purchase for companies, researchers, and other professionals in the dairy sector *Microstructure of Dairy Products* is an excellent resource for food scientists, technologists, and chemists—and physicists, rheologists, and microscopists—who deal in dairy products.

PROBIOTIC DAIRY PRODUCTS

John Wiley & Sons Probiotic Dairy Products, 2nd Edition The updated guide to the most current research and developments in probiotic dairy products The thoroughly revised and updated second edition of *Probiotic Dairy Products* reviews the recent advancements in the dairy industry and includes the latest scientific developments in regard to the 'functional' aspects of dairy and fermented milk products and their ingredients. Since the publication of the first edition of this text, there have been incredible advances in the knowledge and understanding of the human microbiota, mainly due to the development and use of new molecular analysis techniques. This new edition includes information on the newest developments in the field. It offers information on the new 'omic' technologies that have been used to detect and analyse all the genes, proteins and metabolites of individuals' gut microbiota. The text also

includes a description of the history of probiotics and explores the origins of probiotic products and the early pioneers in this field. Other chapters in this resource provide valuable updates on genomic analysis of probiotic strains and aspects of probiotic products' production and quality control. This important resource: Offers a completely revised and updated edition to the text that covers the topic of probiotic dairy products Contains 4 brand new chapters on the following topics: the history of probiotics, prebiotic components, probiotic research, and the production of vitamins, exopolysaccharides (EPS), and bacteriocins Features a new co-editor and a host of new contributors, that offer the latest research findings and expertise Is the latest title in Wiley's Society of Dairy Technology Technical Series Probiotic Dairy Products is an essential resource for dairy scientists, dairy technologists and nutritionists. The text includes the results of the most reliable research in field and offers informed views on the future of, and barriers to, the progress for probiotic dairy products.

HANDBOOK OF DRYING FOR DAIRY PRODUCTS

John Wiley & Sons Handbook of Drying for Dairy Products is a complete guide to the field's principles and applications, with an emphasis on best practices for the creation and preservation of dairy-based food ingredients. Details the techniques and results of drum drying, spray drying, freeze drying, spray-freeze drying, and hybrid drying Contains the most up-to-date research for optimizing the drying of dairy, as well as computer modelling options Addresses the effect of different drying techniques on the nutritional profile of dairy products Provides essential information for dairy science academics as well as technologists active in the dairy industry

DAIRY PROCESSING

IMPROVING QUALITY

Elsevier 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

LIBRARY LIST

ADVANCED DAIRY SCIENCE AND TECHNOLOGY

John Wiley & Sons This important and comprehensive book covers, in depth, the most important recent advances in dairy technology. Providing core commercially important information for the dairy industry, the editors, both internationally known for their work in this area, have drawn together an impressive and authoritative list of contributing authors. Topics covered include: heat treatment, membrane processing, hygiene by design, application of HACCP, automation, safety and quality, modern laboratory practices and analysis, and environmental aspects. This book is an essential purchase for all dairy technologists worldwide, whether in academic research and teaching, or within food companies.

MICROBIAL CULTURES AND ENZYMES IN DAIRY TECHNOLOGY

IGI Global Microorganisms are an integral part of the fermentation process in food products and help to improve sensory and textural properties of the products. As such, it is vital to explore the current uses of microorganisms in the dairy industry. Microbial Cultures and Enzymes in Dairy Technology is a critical scholarly resource that explores multidisciplinary uses of cultures and enzymes in the production of dairy products. Featuring coverage on a wide range of topics such as dairy probiotics, biopreservatives, and fermentation, this book is geared toward academicians, researchers, and professionals in the dairy industry seeking current research on the major role of microorganisms in the production of many dairy products.

THERMAL FOOD PROCESSING

NEW TECHNOLOGIES AND QUALITY ISSUES, SECOND EDITION

CRC Press Thermal processing remains one of the most important processes in the food industry. Now in its second edition, Thermal Food Processing: New Technologies and Quality Issues continues to explore the latest developments in the field. Assembling the work of a worldwide panel of experts, this volume highlights topics vital to the food

industry today an

FETA AND RELATED CHEESES

Elsevier **This book provides a detailed guide to white brined cheeses: raw materials, processes, manufacture, equipment and packaging, chemistry, microbiology and sensory specifications. It includes comprehensive coverage of the production, maturation and distribution of cheeses such as Feta, Domiati and Halloumi as well as many more local varieties.**