

Advances in Dairy Ingredients

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Advances in Dairy Products Francesco Conto, Matteo A. Del Nobile, Michele Faccia, Angelo V. Zambrini, Amalia Conte, 2017-11-13 *Advances in Dairy Product Science Technology* offers a comprehensive review of the most innovative scientific knowledge in the dairy food sector Edited and authored by noted experts from academic and industry backgrounds this book shows how the knowledge from strategic and applied research can be utilized by the commercial innovation of dairy product manufacture and distribution Topics explored include recent advances in the dairy sector such as raw materials and milk processing environmental impact economic concerns and consumer acceptance The book includes various emerging technologies applied to milk and starter cultures sources strategic options for their use their characterization requirements starter growth and delivery and other ingredients used in the dairy industry The text also outlines a framework on consumer behavior that can help to determine quality perception of food products and decision making Consumer insight techniques can help support the identification of market opportunities and represent a useful mean to test product prototypes before final launch This comprehensive resource Assesses the most innovative scientific knowledge in the dairy food sector Reviews the latest technological developments relevant for dairy companies Covers new advances across a range of topics including raw material processing starter cultures for fermented products processing and packaging Examines consumer research innovations in the dairy industry Written for dairy scientists other dairy industry professionals government agencies educators and students *Advances in Dairy Product Science Technology* includes vital information on the most up to date and scientifically sound research in the field

Advanced Dairy Chemistry, Volume 2 Paul L. H. McSweeney, Patrick F. Fox, James A. O'Mahony, 2020-12-08 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

Advanced Fermentation and Cell Technology, 2 Volume Set Byong H. Lee, 2021-10-25 **ADVANCED**

FERMENTATION AND CELL TECHNOLOGY A comprehensive and up to date reference covering both conventional and novel industrial fermentation technologies and their applications Fermentation and cell culture technologies encompass more than the conventional microbial and enzyme systems used in the agri food biochemical bioenergy and pharmaceutical industries New technologies such as genetic engineering systems biology protein engineering and mammalian cell and plant cell systems are expanding rapidly as is the demand for sustainable production of bioingredients drugs bioenergy and biomaterials As the growing biobased economy drives innovation industrial practitioners instructors researchers and students must keep pace with the development and application of novel fermentation processes and a variety of cell technologies Advanced Fermentation and Cell Technology provides a balanced and comprehensive overview of the microbial mammalian and plant cell technologies used by the modern biochemical process industry to develop new and improved processes and products This authoritative volume covers the essential features of advanced fermentation and cell technology and highlights the interaction of food fermentation and cell culture biopharmaceutical actives Detailed chapters organized into five sections cover microbial cell technology animal and plant cell technology safety issues of new biotechnologies and applications of microbial fermentation to food products chemicals and pharmaceuticals Written by an internationally recognized expert in food biotechnology this comprehensive volume Covers both conventional and novel industrial fermentation technologies and their applications in a range of industries Discusses current progress in novel fermentation cell culture commercial recombinant bioproducts technologies Includes overviews of the global market size of bioproducts and the fundamentals of cell technology Highlights the importance of sustainability Good Manufacturing Practices GMP quality assurance and regulatory practices Explores microbial cell technology and culture tools and techniques such as genome shuffling and recombinant DNA technology RNA interference and CRISPR technology molecular thermodynamics protein engineering proteomics and bioinformatics and synthetic biology Advanced Fermentation and Cell Technology is an ideal resource for students of food science biotechnology microbiology agricultural sciences biochemical engineering and biochemistry and is a valuable reference for food scientists researchers and technologists throughout the food industry particularly the dairy bakery and fermented beverage sectors

Advances in Dairy Microbial Products Joginder Singh Panwar, Ashish Vyas, 2022-01-18 *Advances in Dairy Microbial Products* describes the importance and utility of microbial products used in dairy products This book explains the makeup of these products in a scientifically sound yet simple manner The appeal of this book is its holistic approach to addressing the different aspects of the dairy industry from basic dairy microbial biochemistry to production of dairy products and their nutrient quality and finally to machine learning applications in dairy industry Comprised of chapters written and edited by international authorities and researchers with top expertise in dairy products it offers both established and cutting edge solutions to the numerous challenges commonly encountered in the industrial processing of milk and the production of milk products This book offers a highly practical approach to the topic

addressing and tackling the problems faced in the workplace by dairy technologists Researchers and practitioners will find this book to be an ideal source of thorough and up to date information on dairy microbial products while also appealing to beginners seeking to understand how advanced dairy technologies can increase the efficiency of current techniques Examines the advances of dairy products in healthcare environment and industry Elaborates upon advanced perspectives wide applications traditional uses and modern practices of harnessing potential of microbial products Includes helpful illustrations of recent trends in dairy product research

Dairy Foods Processing Adriano Gomes da Cruz,Tatiana Colombo Pimentel,Erick Almeida Esmerino,Silvani Verruck,2024-11-06 This volume aims to introduce the broad field of protocols that can be used for dairy foods and beverages production Written in the format of the Methods and Protocols in Food Science series the chapters include an introduction to the respective topic list necessary materials and reagents detail well established and validated methods for readily reproducible laboratory protocols and contain notes on how to avoid or solve typical problems Authoritative and cutting edge Dairy Foods Processing aims to provide sufficient guidance and a basic understanding of the tools materials and supplies needed to get started in this important food discipline

Byproducts from Agriculture and Fisheries Benjamin K. Simpson,Alberta N. Aryee,Fidel Toldrá,2019-11-04 Ranging from biofuels to building materials and from cosmetics to pharmaceuticals the list of products that may be manufactured using discards from farming and fishery operations is extensive Byproducts from Agriculture and Fisheries examines the procedures and technologies involved in this process of reconstitution taking an environmentally aware approach as it explores the developing role of value added byproducts in the spheres of food security waste management and climate control An international group of authors contributes engaging and insightful chapters on a wide selection of animal and plant byproducts discussing the practical business of byproduct recovery within the vital contexts of shifting socio economic concerns and the emergence of green chemistry This important text Covers recent developments current research and emerging technologies in the fields of byproduct recovery and utilization Explores potential opportunities for future research and the prospective socioeconomic benefits of green waste management Includes detailed descriptions of procedures for the transformation of the wastes into of value added food and non food products With its combination of practical instruction and broader commentary Byproducts from Agriculture and Fisheries offers essential insight and expertise to all students and professionals working in agriculture environmental science food science and any other field concerned with sustainable resources

Handbook of Cheese Chemistry Michael H. Tunick,2023-07-28 Edited and authored by world experts this book covers the newest areas of research into cheese manufacture and engineering as well as the latest developments concerning properties and structure Information dealing with cheese manufacture includes starter and adjunct cultures nonstarter lactic acid bacteria coagulants novel processing techniques and ripening The chapters on cheese properties explain rheology microscopy flavours and other topics Comparisons of cheese made from milk of various mammals and of artisanal and large

scale cheese manufacturing including vegan cheeses are included Providing a useful source of facts and information for scientists cheesemakers and students the book covers the ever expanding field of cheese production technology and analysis Cheesemakers large and small must respond to changing consumer demands and interests This book informs the knowledge base in cheese chemistry and scientific advances in these areas *Chemical Processes for a Sustainable Future* Trevor Letcher, Janet Scott, Darrell Patterson, 2015-11-09 This comprehensive book approaches sustainability from two directions the reduction of pollution and the maintaining of existing resources both of which are addressed in a thorough examination of the main chemical processes and their impact Divided into five sections each introduced by a leading expert in the field the book takes the reader through the various types of chemical processes demonstrating how we must find ways to lower the environmental cost of both pollution and contributions to climate change of producing chemicals Each section consists of several chapters presenting the latest facts and opinion on the methodologies being adopted by the chemical industry to provide a more sustainable future A follow up to *Materials for a Sustainable Future* Royal Society of Chemistry 2012 this book will appeal to the same broad readership industrialists and investors policy makers in local and central governments students teachers scientists and engineers working in the field and finally editors journalists and the general public who need information on the increasingly popular concepts of sustainable living *High Temperature Processing of Milk and Milk Products* Hilton C. Deeth, Michael J. Lewis, 2017-05-08 This book covers many aspects of thermal processing of milk and milk products with particular focus on UHT processing It commences with an overview of the major thermal processing technologies thermisation pasteurisation extended shelf life ESL UHT and in container sterilisation It discusses the principles of the technologies the processing and packaging equipment used processing issues such as temperature time profiles heat stability fouling and cleaning and the quality and safety aspects of the products produced It provides a balance of the engineering aspects of the processes and the chemical microbiological and sensory aspects of the products The changes that occur in products during processing and storage and the related defects which can arise are central to the book The discussions of these changes will be an aid to industry personnel in identifying the causes of quality defects in these products and devising measures which can be taken to eliminate or minimise the defects *Achieving sustainable production of milk Volume 1* Dr Nico van Belzen, 2017-03-31 Summarises latest research on the composition of proteins and components in milk Reviews advances in understanding factors affecting milk quality eg breeding and nutrition Discusses current research on genetic factors affecting dairy cattle growth and health as well as ways to optimise breeding to improve the productivity of dairy cows **Membrane Processing for Dairy Ingredient Separation** Kang Hu, James Dickson, 2015-07-20 Membrane processing is a filtration technique in which particles are separated from liquids by being forced through a porous material or membrane Applied to dairy products the separation techniques allow valuable compounds found in milk to be isolated for use as ingredients in food processing A comprehensive overview of membrane separation processes this book explores various

applications such as pressure driven processes electrical field driven processes and concentration driven processes for the recovery of various dairy streams and ingredients The topics covered place emphasis on new applications including microfiltration ultrafiltration reverse osmosis electrodialysis and pervaporation The text also presents in depth knowledge of the mechanisms of each membrane separation process as well as membrane types and the equipment used in these processes Combining their educational backgrounds and substantial industrial experience in dairy ingredients processes the authors address cutting edge technologies that have been thoroughly researched and have great potential to be commercialized in the near future The book will therefore be of interest to dairy industry professionals and will serve as a source of reference material for professors and students in food science and engineering

Food and Lifestyle in Health and Disease Chuong Pham-Huy, Bruno Pham Huy, 2022-04-29 Food and Lifestyle in Health and Disease gathers information on various food types providing an explanation of their nutrient composition sources roles and mechanisms in health and diseases To obtain good health practices and prevent diseases it is necessary to understand links in the relationship of food lifestyle environment and health This book is a vital source for research topics related to these issues including the following Analysis of various types of food and lifestyles for the prevention and treatment of diseases and disorders including cardiovascular disorders cancers neurodegenerative diseases diabetes hypertension and obesity The influences of environmental pollution synergistic effects of different foods and synergy of foods with physical activity or medicine The roles of animal fungal and plant source foods in human health and disease This book is appropriate for health conscious users health care providers and practitioners teachers and researchers

Handbook of Research on Health and Environmental Benefits of Camel Products Alhaj, Omar Amin, Faye, Bernard, Agrawal, Rajendra Prasad, 2019-12-27 In recent years there has been a rise in the demand of alternative agricultural commodities specifically camel milk based products Camel products have become highly coveted items in today's commercial market due to their environmental and health advantages However there is a lack of research and literature on camel milk and related camel goods Up to date information is needed to give researchers a better understanding of the compositional and functional properties of camel milk production The Handbook of Research on Health and Environmental Benefits of Camel Products is an essential reference source that discusses the nutritional physical and chemical factors of camel milk in comparison to other animal milks and introduces benefits attributed to camel meat The up to date potential health benefits of fresh and fermented camel milk in vitro and in vivo will be also covered in addition to the link between functional constituents and the functional properties of milk The authors will review the recent research on the functional properties of camel milk such as the angiotensin converting enzyme antimicrobial anticancer and hypocholesterolemic effects Featuring research on topics such as colostrum composition meat production and nutritional value this book is ideally designed for health professionals environmentalists dieticians food industry professionals researchers academicians and students seeking coverage on the

compositional and physiological aspects of camel products Cheese Paul L.H. McSweeney, Paul D. Cotter, David W. Everett, Rani Govindasamy-Lucey, 2025-06-16 Cheese Chemistry Physics and Microbiology Fifth Edition provides a comprehensive overview of the chemical biochemical microbiological and physico chemical aspects of cheese taking the reader from rennet and acid coagulation of milk to the role of cheese and related foods in addressing public health issues This updated revision the most comprehensive work on the science of cheese addresses from the basic definition of cheese to the diverse factors that affect its quality Understanding these fermented milk based food products is vital to a global audience with the market for cheese continuing to increase even as food ingredient Divided in two volumes this book contains by far the most comprehensive coverage of the scientific aspects of this important dairy product covering all aspects of cheese manufacture and ripening from the standpoint of basic science vol 1 In addition coverage is included of all major families of cheese vol 2 Thoroughly revised edition brings updated new chapters that cover cheese structure digestibility acid curd and acid heat coagulated cheeses Offers practical explanations and solutions to challenges including case studies Presents content that is ideal for those learning and practicing the art of cheesemaking at all levels of research and production Manufacturing Yogurt and Fermented Milks Ramesh C. Chandan, Arun Kilara, 2013-01-10 Melding the hands on experience of producing yogurt and fermented milks over four decades with the latest in scientific research in the dairy industry editor Chandan and his associate editors have assembled experts worldwide to write Manufacturing Yogurt and Fermented Milks 2nd Edition This one of a kind resource gives a complete description of the manufacturing stages of yogurt and fermented milks from the receipt of raw materials to the packaging of the products Information is conveniently grouped under four categories Basic background History and consumption trends milk composition characteristics dairy processing principles regulatory requirements laboratory analysis starter cultures packaging and more Yogurt manufacture Fruit preparations and flavoring materials ingredients processing principles manufacture of various yogurt types plant cleaning and sanitizing quality assurance and sensory analysis Manufacture of fermented milks Procedure packaging and other details for more than ten different types of products Health benefits Functional foods probiotics disease prevention and the health attributes of yogurt and fermented milks All manufacturing processes are supported by sound scientific technological and engineering principles *Elementary Food Science* Richard Owusu-Apenten, Ernest R. Vieira, 2022-05-28 Following the success of the popular introductory text Elementary Food Science 5th edition covers a broad range of food science topics organized in four parts Part 1 Interrelated food science topics Part 2 Food safety GMP is described independently and as a prerequisite for HACCP VACCP and TACCP food safety management systems Part 3 contains two new chapters dealing with basic aspects of food processing and the quality of dried foods Part 4 covers handling and processing major food commodity groups meat dairy products poultry and eggs fish and shellfish cereal grains bakery products fruits and vegetables sugar confectionary A new final chapter covers the foodservice industry The text highlights food science links with industry

uniquely using the North American Industry Classification System NAICS Overall the book is thoroughly modernized with over 1500 references cited in recognition of thousands of named food scientists and other professionals The target readership remain unchanged for the current edition i e Students of food science from senior high school colleges or universities Sections of the book will also appeal to advanced readers from other disciplines with perhaps little or no prior food science experience Additionally readers covering the intersection of food science with culinary arts food services and nutrition or public health will find the book useful Milk Production, Processing and Marketing Khalid Javed, 2019-07-17

Milk is considered as a complete diet for an infant and contains essential nutrients for the development of young mammals The substances in milk provide energy and antibodies that help protect against infection Most farmers are paid for the quality and composition of their milk Whole milk once approved for use is pumped into storage silos where it undergoes pasteurization homogenization separation and further processing Milk is a highly perishable commodity because it is an excellent medium for the growth of microorganisms particularly bacterial pathogens that can cause spoilage as well as diseases in consumers Milk processing allows the preservation of milk for days weeks or months and helps to reduce food borne illness *Dairy Chemistry and Biochemistry* P. F. Fox, T. Uniacke-Lowe, P. L. H. McSweeney, J. A.

O'Mahony, 2015-06-19 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 *Advanced Spectroscopic Techniques for Food Quality* Ashutosh Kumar Shukla, 2022-05-20 The use of spectroscopy in food analysis is growing and this informative volume presents the application of advanced spectroscopic techniques in the analysis of food quality The spectroscopic techniques include visible and NIR spectroscopy FTIR spectroscopy and Laser induced Breakdown Spectroscopy LIBS A wide range of food and beverage items are covered including tea coffee and wine The chapters will highlight the potential of spectroscopic techniques to enrich the food quality analysis experience when coupled with artificial intelligence and machine learning and provide a good opportunity to assess and critically lay out any future prospects Different chapters have been written using a bottom up approach that suits the needs of novice researchers and at the same time offers a smooth read for professionals The book will also be of use to those developing spectroscopic facilities providing a useful cross comparison of the various techniques

Engineering Solutions for Sustainable Food and Dairy Production Sankar Chandra Deka, C. Nickhil, A. K. Haghi, 2025-01-31 This book offers a comprehensive exploration of food and dairy process engineering catering to a diverse audience ranging from students and budding engineers to seasoned professionals in the food industry It delves into a wide

array of crucial topics each meticulously crafted to provide valuable insights into the complex world of food and dairy processing Engineering Solutions for Sustainable Food and Dairy Production begins by addressing the paramount concern of safety in the food industry tackling challenges and opportunities in ensuring the quality and integrity of food products The book promotes an understanding of the sources of dairy products and the practices involved in dairy farming which are pivotal for producing high quality dairy goods Raw material management and quality control techniques are covered in full as are fluid mechanics and heat transfer and pasteurization techniques Fermentation processes are explored in depth showcasing their significance in the creation of various food products Separation technologies such as filtration and centrifugation techniques are studied and evaporation and concentration techniques are discussed which enables the production of condensed and powdered items A full chapter is dedicated to food and dairy freezing and cooling techniques focusing on maintaining the correct temperature and various freezing and cooling methods For researchers in search of the most updated technologies and techniques for sustainable food and dairy processing this text functions as a singular source

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