



BAKED PRODUCTS

SCIENCE, TECHNOLOGY AND PRACTICE

Stanley Cauvain and Linda Young



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Baked Products Science Technology And Practice

Servet Gulum Sumnu,Serpil Sahin



Baked Products Science Technology And Practice:

Baked Products Stanley P. Cauvain, Linda S. Young, 2008-04-15 Taking a fresh approach to information on baked products this exciting new book from industry consultants Cauvain and Young looks beyond the received notions of how foods from the bakery are categorised to explore the underlying themes which link the products in this commercially important area of the food industry First establishing an understanding of the key characteristics which unite existing baked product groups the authors move on to discuss product development and optimisation providing the reader with coverage of Key functional roles of the main bakery ingredients Ingredients and their influences Heat transfer and product interactions Opportunities for future product development *Baked Products* is a valuable practical resource for all food scientists and food technologists within bakery companies ingredient suppliers and general food companies Libraries in universities and research establishments where food science and technology is studied and taught will find the book an important addition to their shelves

The ICC Handbook of Cereals, Flour, Dough & Product Testing Stanley P. Cauvain, Linda S. Young, 2009 Presents an introduction to the techniques and information required for the testing and analysis of cereals throughout the entire grain chain from breeding through harvesting and storage to processing and the manufacture of cereal based food products

Bakery Products Science and Technology Weibiao Zhou, Y. H. Hui, 2014-08-11 Baking is a process that has been practiced for centuries and bakery products range in complexity from the simple ingredients of a plain pastry to the numerous components of a cake While currently there are many books available aimed at food service operators culinary art instruction and consumers relatively few professional publications exist that cover the science and technology of baking In this book professionals from industry government and academia contribute their perspectives on the state of industrial baking today The second edition of this successful and comprehensive overview of bakery science is revised and expanded featuring chapters on various bread and non bread products from around the world as well as nutrition and packaging processing quality control global bread varieties and other popular bakery products The book is structured to follow the baking process from the basics flour and other ingredients to mixing proofing and baking Blending the technical aspects of baking with the latest scientific research *Bakery Products Science and Technology Second Edition* has all the finest ingredients to serve the most demanding appetites of food science professionals researchers and students

Food Engineering Aspects of Baking Sweet Goods Servet Gulum Sumnu, Serpil Sahin, 2008-03-24 Most baking books do not focus on the simultaneous heat and mass transfer that occurs in the baking process thereby ignoring a fundamental facet of process and product development Addressing the engineering and science elements often ignored in current baking books *Food Engineering Aspects of Baking Sweet Goods* explores important topics in understanding the baking process and reviews recent technological advances With contributions from various international authorities on food science engineering and technology the book covers the rheology of cake batter and cookie dough cake emulsions the physical and thermal properties of sweet

goods and heat and mass transfer during baking It also presents the science of soft wheat products including the quality of soft wheat the functions of ingredients in the baking of sweet goods and the chemical reactions during processing In addition the contributors discuss cake and cookie technologies as well as recent advances in baking soft wheat products The final chapter examines the nutritional issues of consuming fats and sugars and presents general strategies for substituting fats and sugars in baked products Taking an engineering approach to the field this volume delineates the complex food process of baking from ingredients to production to finished product *Bakery Products Science and Technology* Weibiao Zhou,Y. H. Hui,2014-06-04 Baking is a process that has been practiced for centuries and bakery products range in complexity from the simple ingredients of a plain pastry to the numerous components of a cake While currently there are many books available aimed at food service operators culinary art instruction and consumers relatively few professional publications exist that cover the science and technology of baking In this book professionals from industry government and academia contribute their perspectives on the state of industrial baking today The second edition of this successful and comprehensive overview of bakery science is revised and expanded featuring chapters on various bread and non bread products from around the world as well as nutrition and packaging processing quality control global bread varieties and other popular bakery products The book is structured to follow the baking process from the basics flour and other ingredients to mixing proofing and baking Blending the technical aspects of baking with the latest scientific research Bakery Products Science and Technology Second Edition has all the finest ingredients to serve the most demanding appetites of food science professionals researchers and students *Handbook of Food Processing* Theodoros Varzakas,Constantina Tzia,2015-10-22 Packed with case studies and problem calculations Handbook of Food Processing Food Safety Quality and Manufacturing Processes presents the information necessary to design food processing operations and describes the equipment needed to carry them out in detail It covers the most common and new food manufacturing processes while addressing rele *Handbook of Paper and Paperboard Packaging Technology* Mark J. Kirwan,2012-11-07 The definitive industry reference on the paper and paperboard packaging sector Now in a fully revised and updated second edition this book discusses all the main types of packaging based on paper and paperboard It considers the raw materials the manufacture of paper and paperboard and the basic properties and features on which packaging made from these materials depends for its appearance and performance The manufacture of twelve types of paper and paperboard based packaging is described together with their end use applications and the packaging machinery involved The importance of pack design is stressed as well as how these materials offer packaging designers opportunities for imaginative and innovative design solutions Environmental factors including resource sustainability societal and waste management issues are addressed in a dedicated chapter The book is directed at readers based in companies which manufacture packaging grades of paper and paperboard companies involved in the design printing and production of packaging and companies which manufacture inks coatings adhesives and packaging machinery It will be

essential reading for students of packaging technology and technologists working in food manufacturing who are users of paper and paperboard packaging products Praise for the First Edition This book is a valuable addition to the library of any forward looking company by providing in depth coverage of all aspects of packaging which involve the most ecologically acceptable material namely paper and paperboard International Journal of Dairy Technology a welcome contribution to a field where coverage was previously limited to subject specific books or to single chapters in textbooks on broader aspects of packaging technology Packaging Technology and Science Biofilms in the Food Environment Anthony L. Pometto III, Ali Demirci, 2015-11-02 In nature microorganisms are generally found attached to surfaces as biofilms such as dust insects plants animals and rocks rather than suspended in solution Once a biofilm is developed other microorganisms are free to attach and benefit from this microbial community The food industry which has a rich supply of nutrients solid surfaces and raw materials constantly entering and moving through the facility is an ideal environment for biofilm development which can potentially protect food pathogens from sanitizers and result in the spread of foodborne illness Biofilms in the Food Environment is designed to provide researchers in academia federal research labs and industry with an understanding of the impact control and hurdles of biofilms in the food environment Key to biofilm control is an understanding of its development The goal of this 2nd edition is to expand and complement the topics presented in the original book Readers will find The first comprehensive review of biofilm development by *Campylobacter jejuni* An up date on the resistance of *Listeria monocytogenes* to sanitizing agents which continues to be a major concern to the food industry An account of biofilms associated with various food groups such as dairy meat vegetables and fruit is of global concern A description of two novel methods to control biofilms in the food environment bio nanoparticle technology and bacteriophage Biofilms are not always a problem sometimes they even desirable In the human gut they are essential to our survival and provide access to some key nutrients from the food we consume The authors provide up date information on the use of biofilms for the production of value added products via microbial fermentations Biofilms cannot be ignored when addressing a foodborne outbreak All the authors for each chapter are experts in their field of research The Editors hope is that this second edition will provide the bases and understanding for much needed future research in the critical area of Biofilm in Food Environment **Biofilms in the Dairy Industry** Koon Hoong Teh, Steve Flint, John Brooks, Geoff Knight, 2015-08-31 In recent years the formation and impacts of biofilms on dairy manufacturing have been studied extensively from the effects of microbial enzymes produced during transportation of raw milk to the mechanisms of biofilm formation by thermophilic spore forming bacteria The dairy industry now has a better understanding of biofilms and of approaches that may be adopted to reduce the impacts that biofilms have on manufacturing efficiencies and the quality of dairy products Biofilms in the Dairy Industry provides a comprehensive overview of biofilm related issues facing the dairy sector The book is a cornerstone for a better understanding of the current science and of ways to reduce the occurrence of biofilms associated with dairy manufacturing The introductory

section covers the definition and basic concepts of biofilm formation and development and provides an overview of problems caused by the occurrence of biofilms along the dairy manufacturing chain The second section of the book focuses on specific biofilm related issues including the quality of raw milk influenced by biofilms biofilm formation by thermophilic streptococci and thermophilic spore forming bacteria in dairy manufacturing plants the presence of pathogens in biofilms and biofilms associated with dairy waste effluent The final section of the book looks at the application of modelling approaches to control biofilms Potential solutions for reducing contamination throughout the dairy manufacturing chain are also presented Essential to professionals in the global dairy sector Biofilms in the Dairy Industry will be of great interest to anyone in the food and beverage academic and government sectors This text is specifically targeted at dairy professionals who aim to improve the quality and consistency of dairy products and improve the efficiency of dairy product manufacture through optimizing the use of dairy manufacturing plant and reducing operating costs

Handbook of Mineral Elements in Food

Miguel de la Guardia, Salvador Garrigues, 2015-05-06 Mineral elements are found in foods and drink of all different types from drinking water through to mothers milk The search for mineral elements has shown that many trace and ultratrace level elements presented in food are required for a healthy life By identifying and analysing these elements it is possible to evaluate them for their specific health giving properties and conversely to isolate their less desirable properties with a view to reducing or removing them altogether from some foods The analysis of mineral elements requires a number of different techniques some methods may be suitable for one food type yet completely unsuited to another The Handbook of Mineral Elements in Food is the first book to bring together the analytical techniques the regulatory and legislative framework and the widest possible range of food types into one comprehensive handbook for food scientists and technologists Much of the book is based on the authors own data most of which is previously unpublished making the Handbook of Mineral Elements in Food a vital and up to the minute reference for food scientists in industry and academia alike Analytical chemists nutritionists and food policy makers will also find it an invaluable resource Showcasing contributions from international researchers and constituting a major resource for our future understanding of the topic the Handbook of Mineral Elements in Food is an essential reference and should be found wherever food science and technology are researched and taught

Genetic Modification and Food Quality Robert Blair, Joe M. Regenstein, 2015-08-03 The development of recombinant DNA methods has changed the face of the food industry over the last 50 years Crops which have been genetically modified are being cultivated in more and more countries and this process is likely to accelerate as desirable traits are identified and transferred to appropriate organisms and they are cleared by the regulatory authorities However the technique has its critics who claim that modification of the genome of the plant or animal in this way may pose unknown and unacceptable risks to the human consumer Genetic Modification and Food Quality A Down to Earth Analysis is the first comprehensive text on how GM production methods influence the quality of foods and feeds based on a complete and unbiased assessment of the scientific

findings It presents a balanced analysis of the benefits and drawbacks of gene modified food sources in the human diet Chapters approach the topic with regard to different food types such as cereal grains oilseed crops vegetables fish and animal products Assessing the nutritive value as well as the health and safety of GMO foods this book is a reference for anyone working in the food production industry and will also be of an interest to NGOs trade associations and consumers who are looking for an objective balanced study of this contentious issue **Anti-Ageing Nutrients** Deliminda

Neves,2015-07-07 Ageing is a complex time related biological phenomenon that is genetically determined and environmentally modulated According to even the most pessimistic projections average lifespan is expected to increase around the world during the next 20 years significantly raising the number of aged individuals But increasing life expectancy presents new problems and industrialized countries are facing a pronounced increase in lifestyle diseases which constitute barriers to healthy ageing Anti Ageing Nutrients Evidence based Prevention of Age Associated Diseases is written by a multi disciplinary group of researchers all interested in the nutritional modulation of ageing mechanisms Structured in three parts Part 1 looks at the cellular modifications that underlie senescence of cells and ageing of the organisms the effects of energy restriction on cellular and molecular mechanisms and in the whole organism and the epigenetic modifications associated with ageing Part 2 includes chapters which discuss the nutritional modulation of age associated pathologies and the functional decline of organs with a focus on those primarily affected by chronological ageing Part 3 summarises the knowledge presented in the previous chapters and considers the best diet pattern for the aged individuals The book reflects the most recent advances in anti ageing nutrition and will be a valuable resource for professionals educators and students in the health nutritional and food sciences Applied Food Protein Chemistry Zeynep Ustunol,2014-12-19 Food proteins are of

great interest not only because of their nutritional importance and their functionality in foods but also for their detrimental effects Although proteins from milk meats including fish and poultry eggs cereals legumes and oilseeds have been the traditional sources of protein in the human diet potentially any proteins from a biological source could serve as a food protein The primary role of protein in the diet is to provide the building materials for the synthesis of muscle and other tissues and they play a critical role in many biological processes They are also responsible for food texture color and flavor Today food proteins are extracted modified and incorporated into processed foods to impart specific functional properties They can also have adverse effects in the diet proteins such as walnuts pecans almonds and cashews soybean wheat milk egg crustacean and fish proteins can be powerful allergens for some people Applied Food Protein Chemistry is an applied reference which reviews the properties of food proteins and provides in depth information on important plant and animal proteins consumed around the world The book is grouped into three sections 1 overview of food proteins 2 plant proteins and 3 animal proteins Each chapter discusses world production distribution utilization physicochemical properties and the functional properties of each protein as well as its food applications The authors for each of the chapters are carefully selected experts in the field

This book will be a valuable reference tool for those who work on food proteins. It will also be an important text on applied food protein chemistry for upper level students and graduate students of food science programs.

Global Food Security and Supply Wayne Martindale, 2014-12-15 With the global population projected to reach 9 billion by the year 2050 the need for nations to secure food supplies for their populations has never been more pressing. Finding better supply chain solutions is an essential part of achieving a secure and sustainable diet for a rapidly increasing population. We are now in a position through methods including life cycle assessment (LCA), carbon footprinting and other tools to accurately measure and assess our use or misuse of natural resources including food. The impact of new technologies and management systems can therefore improve efficiencies and find new ways to reduce waste. *Global Food Security and Supply* provides robust, succinct information for people who want to understand how the global food system works. The book demonstrates the specific tools available for understanding how food supply works, addresses the challenges facing a secure and safe global food supply and helps readers to appreciate how these challenges might be overcome. This book is a concise and accessible text that focuses on recent data and findings from a range of international collaborations and studies. The author provides both a snapshot of global food supply and security today and a projection of where these issues may lead us in the future. This book will therefore be of particular interest to food policy leaders, commercial managers in the food industry and researchers and students seeking a better understanding of a rapidly evolving topic.

Food Biodeterioration and Preservation Gary S. Tucker, 2008-04-30 Biodeterioration can be defined as the breakdown of food by agents of microbiological origin either directly or from products of their metabolism. Microbiological sources can be present in foods prior to packaging or on the surfaces of packaging materials. The shelf life and safety of the food will depend on the type and quantity of microorganism as well as the hurdles to their growth offered by various preservation techniques. This book discusses how the agents of food biodeterioration operate and examines the commercially used industrial methods available to control them, allowing the production of safe and wholesome foods. There is an emphasis on the equipment employed to carry out the various methods of preservation. The introductory chapter describes in detail the microorganisms and mechanisms of food breakdown intrinsic to various key food types: dairy, meat and fish, fruit and vegetables. Direct microorganism action will be covered in addition to enzymatic breakdown. The second chapter addresses HACCP including food safety legislation. Subsequent chapters outline the principal commercially used methods of preserving foods. These chapters follow a common structure: theoretical background, flow sheets of operations, food preparation, processing equipment, special features of hygiene, packaging, shelf life and product safety. *Food Biodeterioration and Preservation* is directed at food scientists and technologists in industry and academia. Since it covers all the commonly used methods of food preservation, it will be relevant across the entire food manufacturing industry.

Essentials of Thermal Processing Gary S. Tucker, Susan Featherstone, 2011-06-09 Thermal processing remains the most important method of food preservation in use today and the scale of the industry is immense.

The large scale of these production operations makes it more important than ever that the process is performed perfectly every time failure will lead to product deterioration and loss of sales at best and at worst to serious illness or death This volume is a definitive modern day reference for all those involved in thermal processing It covers all of the essential information regarding the preservation of food products by heat It includes all types of food product from those high in acid and given a mild heat process to the low acid sterilised foods that require a full botulinum cook Different chapters deal with the manufacturing steps from raw material microbiology through various processing regimes validation methods packaging incubation testing and spoilage incidents The authors have extensive knowledge of heat preservation covering all parts of the world and represent organisations with formidable reputations in this field This book is an essential resource for all scientists and technologists in the food manufacturing industry as well as researchers and students of food science and technology

Minimally Processed Foods Mohammed Wasim Siddiqui, Mohammad Shafiur Rahman, 2014-10-29 The safety and efficacy of minimal food processing depends on the use of novel preservation technologies This book first examines what is meant by minimally processed foods including fresh cut cooked chilled and part baked products Next explored are the technologies or methods to produce quality products in terms of safety and nutrition including edible coating natural preservatives i e antimicrobial flavour enhancer anti browning advanced packaging active antimicrobial and modified or controlled atmosphere and selected non thermal techniques high pressure pulsed electric field ultrasound light Preservation of food is crucial to achieving a secure and safe global food supply with the desired sensory quality In addition the increasing consumer demand for safe ready to serve ready to eat and cook products with minimal chemical preservatives has raised expectations However foods deemed minimally processed such as fresh cut fruits and vegetables cooked chilled and half baked foods are delicate products that need special care in preparation processing storage and handling As a result new technologies to develop minimally processed foods have aggressively advanced *Minimally Processed Foods Technologies for Safety Quality and Convenience* explores both the definition of minimally processed foods and the methods and technologies used to achieve the safety and nutritional value consumers demand About the Editors Mohammed Wasim Siddiqui Bihar Agricultural University Sabour Bhagalpur India Mohammad Shafiur Rahman Sultan Qaboos University Al khod Oman *Food Processing Handbook* James G. Brennan, Alistair S. Grandison, 2012-05-07 The second edition of the Food Processing Handbook presents a comprehensive review of technologies procedures and innovations in food processing stressing topics vital to the food industry today and pinpointing the trends in future research and development Focusing on the technology involved this handbook describes the principles and the equipment used as well as the changes physical chemical microbiological and organoleptic that occur during food preservation In so doing the text covers in detail such techniques as post harvest handling thermal processing evaporation and dehydration freezing irradiation high pressure processing emerging technologies and packaging Separation and conversion operations widely used in the food industry are also covered as are

the processes of baking extrusion and frying In addition it addresses current concerns about the safety of processed foods including HACCP systems traceability and hygienic design of plant and control of food processes as well as the impact of processing on the environment water and waste treatment lean manufacturing and the roles of nanotechnology and fermentation in food processing This two volume set is a must have for scientists and engineers involved in food manufacture research and development in both industry and academia as well as students of food related topics at undergraduate and postgraduate levels From Reviews on the First Edition This work should become a standard text for students of food technology and is worthy of a place on the bookshelf of anybody involved in the production of foods Journal of Dairy Technology August 2008 This work will serve well as an excellent course resource or reference as it has well written explanations for those new to the field and detailed equations for those needing greater depth CHOICE September 2006

More Baking Problems Solved Stanley P. Cauvain, L S Young, 2009-08-26 When things go wrong in the bakery the pressures of production do not allow time for research into the solution Solving these baking problems has always been the province of experts However with a methodical approach keen observation and a suitable reference book then the answers to many baking problems are more easily identified The companion volume to the popular Baking problems solved More baking problems solved contains an updated guide to problem solving and the answers to further frequently asked questions Once again arranged in a practical question and answer format it will enable busy bakery professionals to understand causes of their problems and implement solutions Written by two leading experts and based on a wealth of practical experience More baking problems solved is invaluable to all bakery professionals bakery students food technologists and product developers An updated guide to problem solving that provides answers to further frequently asked questions and baking An essential reference and problem solving manual for professionals and trainees in the industry An ideal companion volume to Baking problems solved *Bakery Food Manufacture and Quality* Stanley P. Cauvain, Linda S. Young, 2009-01-21 Water is the major contributor to the eating and keeping qualities and structure of baked products Its management and control during preparation processing baking cooling and storage is essential for the optimisation of product quality This successful and highly practical volume describes in detail the role and control of water in the formation of cake batters bread pastry and biscuit doughs their subsequent processing and the baked product Now in a fully revised and updated second edition the book has been expanded and developed through the inclusion of new information and references related to the formation and processing of batters and dough into baked products The new edition includes a selection of case studies based on practical experience in the manufacture and optimisation of baked products Each case study illustrated as appropriate considers the various roles that water may play in different manufacturing contexts The book is aimed at food scientists and technologists in bakery companies ingredient suppliers flour millers researchers and students in academic food science departments

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