

Biscuit Cookie And Cracker Manufacturing Manual 5 Secondary Proceedings Woodhead Publishing Series In Food Science Technology And Nutrition Volume 5 By Manley Duncan 1998 Paperback

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Trends in Packaging of Food, Beverages and Other Fast-Moving Consumer Goods

(FMCG) - Neil Farmer 2013-02-26

Packaging plays an essential role in protecting and extending the shelf life of a wide range of foods, beverages and other fast-moving consumer goods. There have been many key developments in packaging materials and technologies in recent years, and Trends in packaging of food, beverages and other fast-moving consumer goods (FMCG) provides a concise review of these developments and international market trends. Beginning with a concise introduction to the present status and trends in innovations in packaging for food, beverages and other fast-moving consumer goods, the book goes on to consider modified atmosphere packaging and other active packaging systems, including smart and intelligent packaging, and the role these play in augmenting and securing the consumer brand experience. Developments in plastic and

bioplastic materials and recycling systems are then discussed, followed by innovations and trends in metal, paper and paperboard packaging. Further chapters review international environmental and sustainability regulatory and legislative frameworks, before the use of nanotechnology, smart and interactive packaging developments for enhanced communication at the packaging/user interface are explored. Finally, the book concludes by considering potential future trends in materials and technologies across the international packaging market. With its distinguished editor and international team of expert contributors, Trends in packaging of food, beverages and other fast-moving consumer goods (FMCG) is an important reference tool, providing a practical overview of emerging packaging technologies and market trends for research and design professionals in the food and packaging industry, and academics working in this area. Introduces the present status, current trends

and new innovations in the field whilst considering future trends in materials and technologies Considers modified atmosphere packaging and other active packaging systems including smart and intelligent packaging Discusses developments in plastic and bioplastic materials and recycling systems

Foods, Nutrients and Food Ingredients with Authorised EU Health Claims - Michele Jeanne Sadler 2014-04-21

Foods, Nutrients and Food Ingredients with Authorised EU Health Claims provides an overview of how health claims are regulated in the European Union, as well as detailed scientific and regulatory information about permitted health claims for particular types of foods and ingredients. Part one provides a background to the regulation of health claims in Europe. Part two focuses on authorised disease risk reduction claims, claims relating to children's development, and health and proprietary claims. Part three sets out

ingredients with permitted "general function claims, including choline, creatine, sweeteners, dietary lactase supplements, and polyphenols in olive oil. Part four outlines foods and nutrients with permitted health claims, with chapters on vitamins and minerals, proteins, meat, fish, water, and the replacement of saturated fats. Foods, Nutrients and Food Ingredients with Authorised EU Health Claims is the go-to resource for R&D managers and technical managers in the food, and beverage and dietary supplements industry, product development managers, health professionals and academic researchers in the field. Provides a comprehensive overview of foods and food substances that have achieved approved health claims in Europe under Regulation EC 1924/2006 Covers properties and applications of each ingredient, as well as evidence for the health claim and how it benefits consumers Outlines the importance of each claim in product development and marketing and regulatory

issues such as conditions of use

Biscuit, Cookie and Cracker Manufacturing Manuals - Duncan Manley 1998-03

This sequence of manuals addresses key issues such as quality, safety and reliability for those working and training in the manufacture of biscuits, cookies and crackers. Each manual provides a self-sufficient guide to a key topic, full of practical advice on problem-solving and troubleshooting drawn from over 30 years in the industry. What Happens in a Baking Oven o Types of Ovens o Post-Oven Processes o Cooling o Handling o Troubleshooting Tips This manual describes what is involved in baking and cooling biscuits from dough pieces that have been placed on the oven band.

Cooking for Geeks - Jeff Potter 2010-07-20

Presents recipes ranging in difficulty with the science and technology-minded cook in mind, providing the science behind cooking, the physiology of taste, and the techniques of molecular gastronomy.

Extrusion Problems Solved - M N Riaz

2011-11-09

Extrusion is widely used for the preparation of a variety of foodstuffs including breakfast cereals, snack food and pasta, as well as pet food and animal and aquaculture feed. Extrusion problems solved provides responses to more than 300 frequently asked questions about the process of food extrusion and the techniques and equipment involved, in a practical question-and-answer format. The book is divided into twelve chapters for ease of reference: the opening chapters concentrate on introductory queries and on different components of an extruder system, followed by two chapters that help the reader select the correct type of extruder for a product. Chapters five and six discuss the impact of factors such as protein content and particle size on the extrusion process, while the use of pre-conditioners is discussed in chapter seven. The latter part of the book discusses specific types of extruder and die and knife

assemblies, followed by a chapter on issues relating to drying extruded food products. The final chapter offers practical guidelines and rules of thumb for the most common issues relating to food and feed extrusion. Written by two leading experts in the field, *Extrusion problems solved* is an essential reference source and troubleshooting guide for professionals working in food, pet food and feed extrusion. It will also be a valuable training resource for students of extrusion. Offers practical guidelines and rules of thumb for the most common food and feed extrusion problems Chapters concentrate on introductory queries, types of extruder and components of extruder systems, knife assemblies, the use of pre-conditioners and issues in drying extruded food products Provides responses to more than 300 frequently asked questions about the processes, equipment and techniques of food extrusion in a practical question-and-answer format

Biscuit, Cracker and Cookie Recipes for the

Food Industry - Duncan Manley 2001-01-29
Getting the basic formula correct is fundamental to product development and quality. This book provides a comprehensive collection of over 150 standard commercial biscuit recipes and provides the ideal companion to the third edition of Duncan Manley's *Technology of biscuits, crackers and cookies*. It is designed for the biscuit product developer as an aid in the task of creating and perfecting a biscuit product.

[The Complete Technology Book on Bakery Products \(Baking Science with Formulation & Production\)4th Edition](#) - NIIR Board of Consultants & Engineers 2020-01-01

Baking, referred to as the oldest form of cooking, is used for producing everyday products like bread, cakes, pastries, pies, cookies, and donuts. These products are prepared using various ingredients like grain-based flour, water and leavening agents. They are considered fast-moving consumer goods (FMCG) and are consumed daily. Owing to their

palatability, appearance and easily digestible nature, they are highly preferred for both formal and informal occasions. Nowadays, most traditional baking methods have been replaced by modern machines. This shift has enabled manufacturers to introduce innovative bakery products with different ingredients, flavors, shapes and sizes. The book is invaluable reading for those starting their own baking business or any baker looking to improve their existing business in order to increase profits. The Global Bakery Market size is predicted to reach USD 4.36 billion by 2030 with a CAGR of 3.8% from 2020-2030. Bakery products are a part of the processed food class. They include cake, pastries, biscuits, bread, breakfast cereals, and customized baker products. The growing per-capita consumption trends of bakeshop products indicates the untapped growth potential. The market potential is high particularly in the growing markets of Asia and South America; whereby, client demand is increasing for ready

to eat bakery products, as a results of the influence of Western culture and additionally for its convenience. The book covers various aspects related to different bakery products with their manufacturing process and also provides contact details of raw material, plant and machinery suppliers with equipment photographs and their technical specifications. It provides a thorough understanding of the many new developments shaping the industry and offers detailed technical coverage of the manufacturing processes of bakery products. Food Mixer, Cookie Extruder, Rotary Oven, Biscuit Sandwiching Machine, Tunnel Gas Oven, Flour Mixer, Cookies Rotary Moulder, Bun Divider Moulder, Planetary Mixer, Spiral Mixer, Pillow Packing Machine, Oil Spray Machine are the various equipments described in the book with their photographs and technical specifications. A total guide to manufacturing and entrepreneurial success in one of today's most baking industry. This book is one-stop guide to

one of the fastest growing sectors of the bakery industry, where opportunities abound for manufacturers, retailers, and entrepreneurs. This is the only complete handbook on the commercial production of bakery products. It serves up a feast of how-to information, from concept to purchasing equipment.

Tracing Pathogens in the Food Chain -

Stanley Brul 2010-11-23

Successful methods for the detection and investigation of outbreaks of foodborne disease are essential for ensuring consumer safety. Increased understanding of the transmission of pathogens in food chains will also assist efforts to safeguard public health. Tracing pathogens in the food chain reviews key aspects of the surveillance, analysis and spread of foodborne pathogens at different stages of industrial food production and processing. Part one provides an introduction to foodborne pathogen surveillance, outbreak investigation and control. Part two concentrates on subtyping of foodborne

pathogens, with chapters on phenotypic subtyping and pulsed-field gel electrophoresis, as well as emerging methods. The vital topics of method validation and quality assurance are also covered. The focus in Part three is on particular techniques for the surveillance and study of pathogens, such as protein-based analysis, ribotyping and comparative genomics. Finally, Part four focuses on tracing pathogens in specific food chains, such as red meat and game, dairy, fish and shellfish. With its distinguished editors and international team of contributors, Tracing pathogens in the food chain is a standard reference for researchers, public health experts and food industry professionals concerned with the study and control of foodborne disease. Reviews key aspects of the surveillance, analysis and spread of foodborne pathogens Provides an overview of method validation and quality assurance Examines the tracing of pathogens in specific food chains, such as red meat, game and dairy

Bigger Bolder Baking - Gemma Stafford 2019
More than 100 accessible, flavor-packed recipes, using only common ingredients and everyday household kitchen tools, from YouTube celebrity Gemma Stafford

Biscuit, Cookie and Cracker Manufacturing Manuals - Duncan Manley 1998-03

This sequence of manuals addresses key issues such as quality, safety and reliability for those working and training in the manufacture of biscuits, cookies and crackers. Each manual provides a self-sufficient guide to a key topic, full of practical advice on problem-solving and troubleshooting drawn from over 30 years in the industry. The Biscuit, Cookie and Cracker Manufacturing Manuals will be useful to managers and engineers involved in processing confectionery and baked goods, as well as designers of machinery and production lines. Sheeting o Gauging o Cutting o Laminating o Rotary Moulding o Extruding o Wire Cutting o Depositing o Troubleshooting Tips This manual

describes what is involved in forming dough pieces from mixed dough.

Improving the Safety and Quality of Milk - M. Griffiths 2010-04-08

Consumers demand quality milk with a reasonable shelf-life, a requirement that can be met more successfully by the milk industry through use of improved processes and technologies. Guaranteeing the production of safe milk also remains of paramount importance. Improving the safety and quality of milk provides a comprehensive and timely reference to best practice and research advances in these areas. Volume 1 focuses on milk production and processing. Volume 2 covers the sensory and nutritional quality of cow's milk and addresses quality improvement of a range of other milk-based products. The opening section of Volume 1: Milk production and processing introduces milk biochemistry and raw milk microbiology. Part two then reviews major milk contaminants, such as bacterial pathogens, pesticides and

veterinary residues. The significance of milk production on the farm for product quality and safety is the focus of Part three. Chapters cover the effects of cows' diet and mastitis, among other topics. Part four then reviews the state-of-the-art in milk processing. Improving the quality of pasteurised milk and UHT milk and novel non-thermal processing methods are among the subjects treated. With its distinguished editor and international team of contributors, volume 1 of *Improving the safety and quality of milk* is an essential reference for researchers and those in industry responsible for milk safety and quality. Addresses consumer demand for improved processes and technologies in the production, safety and quality of milk and milk products Reviews the major milk contaminants including bacterial pathogens, pesticides and veterinary residues as well as the routes of contamination, analytical techniques and methods of control Examines the latest advances in milk processing methods to improve the quality and safety of

milk such as modelling heat processing, removal of bacteria and microfiltration techniques

Current Strategies to Improve the Nutritional and Physical Quality of Baked Goods - Mario Martinez Martinez 2020-03-18

The lifestyle of humans is rapidly changing, and, correspondingly, their needs and the current and future megatrends of the food market. It is worth mentioning (1) the preference for natural, simple, and flexible diets that drive the further expansion of plant-focused formulations, (2) the focus on food sustainability (food waste reduction), and (3) the interest in healthy eating as the basis for good health. The hectic routine and rapid urbanization in developed and developing regions, respectively, have shifted consumer preferences toward bread and baked foods, which, interestingly, are often high in sugars and are categorized as having a high glycemic index. Therefore, it is of major importance to address the technological challenges of manufacturing baked goods with

high physical and sensory quality that result in positive metabolic responses. This Special Issue seeks to provide fundamental understanding in this area and novel strategies to improve the nutritional properties of baked goods, including a decrease in starch bioaccessibility, sugar reduction, increase in fiber and/or protein content, and the improvement of phytochemical bioactivity. This Special Issue will also cover studies on the physical and sensory improvements of baked goods that may provide a mechanistic understanding to minimize the loss of quality after the incorporation of nutritional-improving ingredients, such as edible byproducts, proteins, or fibers. Last but not least, studies focused on the reduction of additives (clean label) or fat and on the use of sourdough to improve the sensory properties of baked goods will also be included.

Cheese Problems Solved - P L H McSweeney
2007-06-30

Cheese is a unique food product which requires

a significant amount of scientific knowledge to be produced successfully. However, due to the many, complex and interrelated changes which occur during cheese manufacture and ripening, it is still not possible to guarantee the production of premium quality cheese. Written by an international team of renowned contributors, *Cheese problems solved* provides responses to over 200 of the most frequently asked questions about cheese and the cheese-making process, in a unique and practical question-and-answer format. Opening chapters concentrate on queries regarding the preparation of cheese milk, the conversion of milk to curd, the ripening process, pathogens, cheese analysis and nutritional aspects of cheese amongst other issues. The latter half of the book discusses particular types of cheeses such as Cheddar, Grana-type cheeses, Mozzarella, Dutch-type, Swiss and Blue cheeses, to name but a few. Edited by a leading expert and with contributions from specialists within the field,

Cheese problems solved is an essential reference and problem solving manual for professionals and trainees in the cheese industry. Provides responses to over 200 of the most frequently asked questions about cheese and the cheese-making process An essential reference and problem solving manual for professionals and trainees in the cheese industry Benefit from the knowledge of leading specialists in the field
Reducing Saturated Fats in Foods - G Talbot
2011-04-19

The need to reduce saturated fat levels in food and the different ways of doing this are among the most important issues facing the food industry. Reducing saturated fats in foods reviews the sources and effects of saturated fats in food and the ways in which the food industry can effectively reduce saturates. Part one covers the functional and nutritional aspects of saturated fats in foods, with chapters covering sources of dietary saturated fats, their functional attributes and the health issues associated with

saturated fatty acids. Part two focuses on reducing saturated fats through food reformulation, concentrating on both the technologies used and the food categories affected. Chapters cover topics such as emulsion technology for reduction of saturated fats and the application of diacylglycerol oils, as well as different food categories including milk and dairy products, processed meats, fried foods and pastry products. With its distinguished editor and international team of contributors, Reducing saturated fats in foods is an essential reference for oils and fats processors and food manufacturers, as well as those researching saturated fats in the academic sector. Reviews the sources and effects of saturated fats in food and the ways in which the food industry can effectively reduce saturates Explores the functional and nutritional aspects of saturated fats in foods, covering sources of dietary saturated fats and their functional attributes Focuses on reducing saturated fats through food

reformulation, concentrating on both the technologies used and the food categories affected

Biscuit, Cookie and Cracker Manufacturing Manuals - Duncan Manley 1998-03

This sequence of manuals addresses key issues such as quality, safety and reliability for those working and training in the manufacture of biscuits, cookies and crackers. Each manual provides a self-sufficient guide to a key topic, full of practical advice on problem-solving and troubleshooting drawn from over 30 years in the industry Packaging o Wrapping Operations o Storage o Troubleshooting Tips This manual describes what is involved in the packaging of biscuits- the procedures used to protect and offer biscuits for sale.

Biscuit, Cookie and Cracker Manufacturing Manuals - Duncan Manley 1998-03-10

This manual identifies the quality parameters and describes each ingredient by type, function, handling and storage.

Computer Vision Technology in the Food and Beverage Industries - D-W Sun 2012-08-13

The use of computer vision systems to control manufacturing processes and product quality has become increasingly important in food processing. Computer vision technology in the food and beverage industries reviews image acquisition and processing technologies and their applications in particular sectors of the food industry. Part one provides an introduction to computer vision in the food and beverage industries, discussing computer vision and infrared techniques for image analysis, hyperspectral and multispectral imaging, tomographic techniques and image processing. Part two goes on to consider computer vision technologies for automatic sorting, foreign body detection and removal, automated cutting and image analysis of food microstructure. Current and future applications of computer vision in specific areas of the food and beverage industries are the focus of part three.

Techniques for quality control of meats are discussed alongside computer vision in the poultry, fish and bakery industries, including techniques for grain quality evaluation, and the evaluation and control of fruit, vegetable and nut quality. With its distinguished editor and international team of expert contributors, Computer vision technology in the food and beverage industries is an indispensable guide for all engineers and researchers involved in the development and use of state-of-the-art vision systems in the food industry. Discusses computer vision and infrared techniques for image analysis, hyperspectral and multispectral imaging, tomographic techniques and image processing Considers computer vision technologies for automatic sorting, foreign body detection and removal, automated cutting and image analysis of food microstructure Examines techniques for quality control and computer vision in various industries including the poultry, fish and bakery, fruit, vegetable and nut industry

Diet, Immunity and Inflammation - Philip C Calder 2013-09-30

Although inflammation is one of the body's first responses to infection, overactive immune responses can cause chronic inflammatory diseases. Long-term low-grade inflammation has also been identified as a risk factor for other diseases. Diet, immunity and inflammation provides a comprehensive introduction to immunity and inflammation and the role that diet and nutrition play with regard to this key bodily response. Part one, an introductory section, discusses innate and adaptive immunity, mucosal immunity in a healthy gut and chronic inflammatory diseases and low grade inflammation. Chapters in part two highlight the role of micronutrients, including zinc, selenium, iron, vitamin A and vitamin D, in inflammation and immunity. Part three explores other dietary constituents and includes chapters on intestinal bacteria and probiotics, the impacts of prebiotics on the immune system and inflammation, and

antimicrobial, immunomodulatory and anti-inflammatory effects of food bioactive proteins and peptides. Further chapters explore the role of olive oil, short and long chain fatty acids and arginine and glutamine in immune functions. Nutrition, immunity and inflammation are discussed from an integrative and life course perspective in part four. Chapters focus on adverse immune reactions to foods, early nutritional programming, the impact of nutrition on the immune system during ageing, the impact of exercise on immunity and the interaction with nutrition, and the effect that malnutrition has on immunity and susceptibility to infection. With its distinguished editors and international team of expert contributors, Diet, immunity and inflammation is a comprehensive resource for those researching immunology or inflammation, nutrition scientists, and professionals in the food and nutrition industries who require an understanding of the effect that diet can have on the immune system and inflammation. Provides

an overview of key research in the important and connected areas of inflammation, infection, overactive immune responses, diseases and diet. Outlines the fundamentals of immunity and inflammation and reviews the effects of different food constituents. Discusses important related issues, such as ageing and exercise.

Managing Wine Quality - Andrew G. Reynolds
2010-09-30

Many aspects of both grape production and winemaking influence wine sensory properties and stability. Progress in research helps to elucidate the scientific basis of quality variation in wine and to suggest changes in viticulture and oenology practices. The two volumes of *Managing wine quality* review developments of importance to wine producers and researchers. The focus is on recent studies, advanced methods and likely future technologies. Part one of the second volume *Oenology and wine quality* opens with chapters reviewing the impact of different winemaking technologies on quality.

Topics covered include yeast and fermentation management, enzymes, ageing on lees, new directions in stabilisation, clarification and fining of white wines and alternatives to cork in wine bottle closures. Managing wine sensory quality is the major focus of part two. Authors consider issues such as cork taint, non-enzymatic oxidation and the impact of ageing on wine flavour deterioration. The volume concludes with chapters on the management of the quality of ice wines and sparkling wines. With authoritative contributions from experts across the world's winemaking regions, Managing wine quality is an essential reference work for all those involved in viticulture and oenology wanting to explore new methods, understand different approaches and refine existing practices. Reviews the impact of different technologies on wine quality Discusses yeast and fermentation management, enzymes and ageing on lees Considers issues surrounding wine sensory quality including cork taint and the impact of

ageing on flavour deterioration

Microbial Production of Food Ingredients, Enzymes and Nutraceuticals - Brian McNeil
2013-03-21

Bacteria, yeast, fungi and microalgae can act as producers (or catalysts for the production) of food ingredients, enzymes and nutraceuticals. With the current trend towards the use of natural ingredients in foods, there is renewed interest in microbial flavours and colours, food bioprocessing using enzymes and food biopreservation using bacteriocins. Microbial production of substances such as organic acids and hydrocolloids also remains an important and fast-changing area of research. Microbial production of food ingredients, enzymes and nutraceuticals provides a comprehensive overview of microbial production of food ingredients, enzymes and nutraceuticals. Part one reviews developments in the metabolic engineering of industrial microorganisms and advances in fermentation technology in the

production of fungi, yeasts, enzymes and nutraceuticals. Part two discusses the production and application in food processing of substances such as carotenoids, flavonoids and terpenoids, enzymes, probiotics and prebiotics, bacteriocins, microbial polysaccharides, polyols and polyunsaturated fatty acids. Microbial production of food ingredients, enzymes and nutraceuticals is an invaluable guide for professionals in the fermentation industry as well as researchers and practitioners in the areas of biotechnology, microbiology, chemical engineering and food processing. Provides a comprehensive overview of microbial flavours and colours, food bioprocessing using enzymes and food biopreservation using bacteriocins Begins with a review of key areas of systems biology and metabolic engineering, including methods and developments for filamentous fungi Analyses the use of microorganisms for the production of natural molecules for use in foods, including microbial production of food flavours

and carotenoids

Baking Problems Solved - S P Cauvain
2017-02-18

Baking Problems Solved, Second Edition, provides a fully revised follow-up to the innovative question and answer format of its predecessor. Presenting a quick bakery problem-solving reference, Stanley Cauvain returns with more practical insights into the latest baking issues. Retaining its logical and methodical approach, the book guides bakers through various issues which arise throughout the baking process. The book begins with issues found in the use of raw materials, including chapters on wheat and grains, flour, and fats, amongst others. It then progresses to the problems that occur in the intermediate stages of baking, such as the creation of doughs and batters, and the input of water. Finally, it delves into the difficulties experienced with end products in baking by including chapters on bread and fermented products, cakes, biscuits, and cookies

and pastries. Uses a detailed and clear question and answer format that is ideal for quick reference Combines new, up-to-date problems and solutions with the best of the previous volume Presents a wide range of ingredient and process solutions from a world-leading expert in the baking industry

Biscuit, Cookie and Cracker Production - Iain Davidson 2018-07-10

Biscuit, Cookie, and Cracker Production: Process, Production, and Packaging Equipment is a practical reference that brings a complete description of the process and equipment necessary for automated food production in the food/biscuit industry. The book describes the existing and emerging technologies in biscuit making and production, bringing a valuable asset to R&D personnel and students in food technology and engineering areas. Full of clear illustrations, photos and text describing types of biscuits, cookies and crackers, ingredients, test bakery equipment, dough piece forming, biscuit

baking ovens, biscuit cooling and handling, and processing and packaging, this book presents a timely resource on the topic. Covers the complete processed food production line, from raw materials to packaged product Shows, in detail, the process, production and packaging equipment for biscuits, cookies and crackers Provides an understanding of the development from a manual artisan process to a fully automated, high-volume production process Brings more than 200 pictures of biscuits, cookies and crackers, along with machinery *Open Innovation in the Food and Beverage Industry* - Marian Garcia Martinez 2013-01-22 Food and beverage companies are increasingly choosing to enhance internal idea development by pursuing an 'open innovation' approach, allowing the additional exploitation of external ideas and paths to market. Drawing on a range of important case studies, Open innovation in the food and beverage industry investigates the challenges and opportunities afforded by the

incorporation of open innovation into the food industry. Part one provides a comprehensive overview of the changing nature of innovation in the food and drink industry, acknowledging trends and considering the implications and impact of open innovation. Part two then reviews the role of partners and networks in open innovation, with collaboration, co-creation of value with consumers, the effectiveness of cluster organizations and the importance of network knowledge all discussed, before part three goes on to explore the establishment and varied management aspects of open innovation partnerships and networks. Finally, open-innovation tools, processes and managerial frameworks are the focus of part four, with discussion of the development, application and psychology of a range of initiatives. With its distinguished editor and international team of expert contributors, Open innovation in the food and beverage industry is a unique guide to the implementation and management of open

innovation for all food industry professionals involved in management, research and product development, as well as academics with an interest in open innovation across all industries. Investigates the challenges and opportunities afforded by the incorporation of open innovation into the food industry Provides a comprehensive overview of the changing nature of innovation in the food and drink industry and reviews the role of partners and networks in open innovation Explores the establishment and varied management aspects of open innovation partnerships and networks and discusses the development, application and psychology of a range of initiatives

Sensory Analysis for Food and Beverage Quality Control - David Kilcast 2010-05-24

Producing products of reliable quality is vitally important to the food and beverage industry. In particular, companies often fail to ensure that the sensory quality of their products remains consistent, leading to the sale of goods which

fail to meet the desired specifications or are rejected by the consumer. This book is a practical guide for all those tasked with using sensory analysis for quality control (QC) of food and beverages. Chapters in part one cover the key aspects to consider when designing a sensory QC program. The second part of the book focuses on methods for sensory QC and statistical data analysis. Establishing product sensory specifications and combining instrumental and sensory methods are also covered. The final part of the book reviews the use of sensory QC programs in the food and beverage industry. Chapters on sensory QC for taint prevention and the application of sensory techniques for shelf-life assessment are followed by contributions reviewing sensory QC programs for different products, including ready meals, wine and fish. A chapter on sensory QC of products such as textiles, cosmetics and cars completes the volume. Sensory analysis for food and beverage quality control is an essential

reference for anyone setting up or operating a sensory QC program, or researching sensory QC. Highlights key aspects to consider when designing a quality control program including sensory targets and proficiency testing Examines methods for sensory quality control and statistical data analysis Reviews the use of sensory quality control programs in the food and beverage industry featuring ready meals, wine and fish

The Science of Bakery Products - W. P. Edwards 2007

From cakes and biscuits to flat breads and standard loaves, the chemistry behind these processes is fascinating. Explaining the science behind bread making and other baked goods, this book looks at the chemistry of the ingredients, flour treatments, flour testing, and baking machinery. It is aimed at anyone with an interest in everyday chemistry.

Biscuit, Cookie and Cracker Manufacturing Manuals - Duncan Manley 1998-03-10

This manual takes readers through such secondary processes as coating, sandwiching and icing, concentrating on common production problems and how they can be solved.

Biscuit Baking Technology - Iain Davidson

2016-01-25

Biscuit Baking Technology, Second Edition, is a reference book for senior managers and staff involved in industrial scale biscuit baking. It covers the biscuit industry process, ingredients, formulations, besides design, manufacture, installation, operation and maintenance of the baking ovens. Written by an expert on the biscuit baking industry, the book is a complete manual guide that will help engineering, production and purchasing managers and staff in the biscuit industry to make the best decisions on oven efficiency purchasing. Thoroughly explores the engineering of baking, details biscuit baking equipments, oven specifications, installation, operation and maintenance The second edition expands chapters 1 to 3, detailing

basic biscuit process, product range, ingredients and process changes during baking. All the chapters have been reorganized and updated Provides details of best industry practice for safety, hygiene and maintenance of ovens Contains explanations of heat transfer and all the types of biscuit oven design with clear pictures and drawings Gathers all the information on how to select and specify an oven to be purchased for a particular range of biscuits

Biscuit, Cookie and Cracker Manufacturing Manuals - Duncan Manley 1998-03

This manual describes the various types of biscuit dough, the key stages in dough mixing and handling, and identifies potential problem areas and solutions.

Advances in Meat, Poultry and Seafood Packaging - Joseph P. Kerry 2012-06-22

Packaging plays an essential role in limiting undesired microbial growth and sensory deterioration. Advances in meat, poultry and seafood packaging provides a comprehensive

review of both current and emerging technologies for the effective packaging of muscle foods. Part one provides a comprehensive overview of key issues concerning the safety and quality of packaged meat, poultry and seafood. Part two goes on to investigate developments in vacuum and modified atmosphere packaging for both fresh and processed muscle foods, including advances in bulk packaging and soluble carbon dioxide use. Other packaging methods are the focus of part three, with the packaging of processed, frozen, ready-to-serve and retail-ready meat, seafood and poultry products all reviewed, alongside advances in sausage casings and in-package pasteurization. Finally, part four explores emerging labelling and packaging techniques. Environmentally-compatible, antimicrobial and antioxidant active packaging for meat and poultry are investigated, along with edible films, smart packaging systems, and issues regarding traceability and regulation.

With its distinguished editor and international team of expert contributors, *Advances in meat, poultry and seafood packaging* is a key text for those involved with the research, development and production of packaged meat, poultry and seafood products. It also provides an essential overview for post-graduate students and academic researchers with an interest in the packaging of muscle foods. Provides a comprehensive review of current and emerging technologies for the effective and safe packaging of muscle foods Investigates developments in vacuum and modified atmosphere packaging for fresh and processed muscle foods, including advances in bulk packaging and soluble carbon dioxide use Explores environmentally-compatible, antimicrobial and antioxidant active packaging for meat and poultry, along with edible films, smart packaging systems, and issues regarding traceability and regulation

Biscuit, Cookie and Cracker Manufacturing Manuals - Duncan Manley 1998-03

This manual identifies the quality parameters and describes each ingredient by type, function, handling and storage.

Robotics and Automation in the Food Industry - Darwin G Caldwell 2012-12-03

The implementation of robotics and automation in the food sector offers great potential for improved safety, quality and profitability by optimising process monitoring and control. Robotics and automation in the food industry provides a comprehensive overview of current and emerging technologies and their applications in different industry sectors. Part one introduces key technologies and significant areas of development, including automatic process control and robotics in the food industry, sensors for automated quality and safety control, and the development of machine vision systems. Optical sensors and online spectroscopy, gripper technologies, wireless sensor networks (WSN) and supervisory control and data acquisition (SCADA) systems are

discussed, with consideration of intelligent quality control systems based on fuzzy logic. Part two goes on to investigate robotics and automation in particular unit operations and industry sectors. The automation of bulk sorting and control of food chilling and freezing is considered, followed by chapters on the use of robotics and automation in the processing and packaging of meat, seafood, fresh produce and confectionery. Automatic control of batch thermal processing of canned foods is explored, before a final discussion on automation for a sustainable food industry. With its distinguished editor and international team of expert contributors, Robotics and automation in the food industry is an indispensable guide for engineering professionals in the food industry, and a key introduction for professionals and academics interested in food production, robotics and automation. Provides a comprehensive overview of current and emerging robotics and automation technologies

and their applications in different industry sectors Chapters in part one cover key technologies and significant areas of development, including automatic process control and robotics in the food industry and sensors for automated quality and safety control Part two investigates robotics and automation in particular unit operations and industry sectors, including the automation of bulk sorting and the use of robotics and automation in the processing and packaging of meat, seafood, fresh produce and confectionery

Technology of Biscuits, Crackers and Cookies -

D.J.R. Manley 1991-07-01

This up-dated and revised edition of Duncan Manley's book on the technology involved in the making of biscuits, crackers and cookies, takes a practical and educational approach, paying particular attention to the problems and difficulties experienced by technologists in the industries concerned. It aims to fill a gap in the market with its emphasis on the improvement of

process control - the book's central theme.

Winemaking Problems Solved - Christian E Butzke 2010-07-19

What is the best way to cold settle my white juices? How do I sample for Brettanomyces? What's the best procedure to clean or store a used barrel? How do I care for the winery pump? My wine is too astringent - what do I do? When can I skip filtering my wine? When will it re-ferment and push the corks? How do I best store and ship my bottled wine? Expert answers to these and further questions that arise during winemaking can be found in this convenient reference book. Arranged in practical question and answer format, Winemaking problems solved provides brief, quickly accessible solutions to more than one hundred issues of frequent concern to winemaking professionals. Chapters review issues associated with grape analysis, juice and must preparation, yeast and malolactic fermentation, wine clarification and stabilisation, filtration, packaging and storage.

Sections on winery equipment maintenance and troubleshooting, wine microbiology and sanitation are also included. The final part of the book focuses on particular wine quality issues, such as hazes and off-odours. With expert contributions from a diverse team of international enologists, *Winemaking problems solved* is an essential, hands-on reference for professionals in the winemaking industry and students of enology. Provides solutions to a variety of issues of frequent concern to wine making professionals. Reviews issues related to grape analysis, filtration, packaging and microbiology. A hands-on reference book written by a diverse team of international enologists. [Determining Mycotoxins and Mycotoxigenic Fungi in Food and Feed](#) - Sarah De Saeger 2011-02-07

Mycotoxins - toxic secondary metabolites produced by mycotoxigenic fungi - pose a significant risk to the food chain. Indeed, they may be the most hazardous of all food

contaminants in terms of chronic toxicity and legislative limits on their levels in food and feed continue to be developed worldwide. Rapid and reliable methods for the determination of both mycotoxigenic fungi and mycotoxins in food and feed are therefore essential. This book reviews current and emerging methods in this area. Part one focuses on the essentials of mycotoxin determination, covering sampling, sample preparation and clean-up and key determination techniques, such as chromatographic separation, liquid chromatography-mass spectrometry and immunochemical methods. Part two then goes on to describe quality assurance, official methods and performance criteria for determining mycotoxins in food and feed. Topics covered include laboratory accreditation, method validation and measurement uncertainty. The development and analysis of biomarkers for mycotoxins are discussed in part three. Individual chapters focus on detecting exposure in humans and animals. Part four is

concerned with the processes involved in determining mycotoxigenic fungi in food and feed. It also describes the identification of genes and gene clusters involved in mycotoxin synthesis, as well as DNA barcoding of toxigenic fungi. Finally, part five explores some of the emerging methods for mycotoxin analysis, ranging from bio-sensing to spectroscopic techniques. With its distinguished editor and international team of contributors, *Determining mycotoxins and mycotoxigenic fungi in food and feed* is a standard reference for all those concerned with reducing mycotoxin contamination in the food chain. Focuses on the essentials of mycotoxin determination, covering sampling, sample preparation, clean-up and key determination techniques Documents quality assurance and official methods and performance criteria for determining mycotoxins in food and feed Explores the processes of determining mycotoxigenic fungi in food and feed including the identification of genes and gene clusters

Protective Cultures, Antimicrobial Metabolites and Bacteriophages for Food and Beverage Biopreservation - C. Lacroix 2010-11-29 Consumers favour foods with fewer synthetic additives, but products must also be safe to eat and have a sufficiently long shelf-life. Biopreservation, the use of a product's natural microflora and its antibacterial products for protection against pathogens and spoilage, is a method of growing interest for the safe production of high quality minimally-processed foods. This book provides an essential overview of key topics in this area. Initial chapters review central aspects in food biopreservation, including the identification of new protective cultures and antimicrobial culture components, existing commercial fermentates including nisin and natamycin and the potential of novel fermentates and bacteriophages to improve food safety. Part II concentrates on the use of protective cultures, bacteriocins and bacteriophages to control the carriage of

pathogenic microorganisms in food animals and to modulate human gut microflora. Chapters in the final section of the book review biopreservation of different types of foods, including milk and dairy products, fermented meats, fresh seafood and fruit. A review of active packaging for food biopreservation completes the volume. Edited by a leading expert, Protective cultures, antimicrobial metabolites and bacteriophages for food and beverage biopreservation is a fundamental reference for researchers and food industry professionals working to ensure the safety of the food supply. Reviews the central aspects in food biopreservation, including the identification of new protective cultures and antimicrobial culture components Examines the use of protective cultures, bacteriocins and bacteriophages to control the carriage of pathogenic microorganisms Provides an overview of the biopreservation of different types of foods, including milk and dairy

products, fermented meats, fresh seafood and fruit
Professional Baking - Wayne Gisslen 2004-04-06
One of the most respected cookbooks in the industry - the 2002 IACP Cookbook Award Winner for Best Technical/Reference - "Professional Baking" brings aspiring pastry chefs and serious home bakers the combined talent of Wayne Gisslen and the prizewinning Le Cordon Bleu in one volume. The revised Fourth Edition offers complete instruction in every facet of the baker's craft, offering more than 750 recipes - including 150 from Le Cordon Bleu - for everything from cakes, pies, pastries, and cookies to artisan breads. Page after page of clear instruction, the hallmark of all Gisslen culinary books, will help you master the basics - such as pate brisee and puff pastry -and confidently hone techniques for making spectacular desserts using spun sugar and other decorative work. More than 500 color photographs illustrate ingredients and

procedures as well as dozens of stunning breads and finished desserts.

Manley's Technology of Biscuits, Crackers

and Cookies - Duncan Manley 2011-09-28

Manley's Technology of Biscuits, Crackers and Cookies is widely regarded as the standard work in its field. Part one covers management issues such as HACCP, quality control, process control and product development. Part two deals with the selection of raw materials and ingredients.

The range and types of biscuits is covered in part three, while part four covers the main production processes and equipment, from bulk handling and metering of ingredients to packaging, storage and waste management.

Eight expert authors have joined Duncan Manley in extensively updating and expanding the book, which is now some 25% longer than the previous edition. Part one now includes a new chapter on sustainability in the biscuit industry and the discussion of process and efficiency control is more detailed. In part two the information on

wheat flour has been extensively revised to reflect recent developments and there are entirely new chapters on fats and oils and packaging materials. Photographs of the major types of biscuits now illustrate chapters in part three, which also includes a newly-composed chapter on the position of biscuits in nutrition. Finally, part four has been comprehensively reviewed and revised with the assistance of an author from a major machinery manufacturer. With its distinguished editor and team of expert contributors this new edition consolidates the position of Manley's Technology of Biscuits, Crackers and Cookies as the standard reference work in the industry. Widely regarded as the standard work in its field Covers management issues such as HACCP, quality control, process control and product development Deals with the selection of raw materials and ingredients
Postharvest Biology and Technology of Tropical and Subtropical Fruits - Elhadi M Yahia
2011-06-30

While products such as bananas, pineapples, kiwifruit and citrus have long been available to consumers in temperate zones, new fruits such as lychee, longan, carambola, and mangosteen are now also entering the market. Confirmation of the health benefits of tropical and subtropical fruit may also promote consumption further. Tropical and subtropical fruits are particularly vulnerable to postharvest losses, and are also transported long distances for sale. Therefore maximising their quality postharvest is essential and there have been many recent advances in this area. Many tropical fruits are processed further into purees, juices and other value-added products, so quality optimisation of processed products is also important. The books cover current state-of-the-art and emerging post-harvest and processing technologies. Volume 1 contains chapters on particular production stages and issues, whereas Volumes 2, 3 and 4 contain chapters focused on particular fruit. Chapters in Volume 4 review the factors

affecting the quality of different tropical and subtropical fruits from mangosteen to white sapote. Important issues relevant to each product are discussed, including means of maintaining quality and minimising losses postharvest, recommended storage and transport conditions and processing methods, among other topics. With its distinguished editor and international team of contributors, Volume 4 of Postharvest biology and technology of tropical and subtropical fruits, along with the other volumes in the collection, are essential references both for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area. Along with the other volumes in the collection, Volume 4 is an essential reference for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area. Reviews factors affecting the quality of different tropical

and subtropical fruits, concentrating on postharvest biology and technology. Important issues relevant to each particular fruit are discussed, such as postharvest physiology, preharvest factors affecting postharvest quality and pests and diseases.

Biscuit, Cookie and Cracker Manufacturing Manuals - Duncan Manley 1998-03

This sequence of manuals addresses key issues such as quality, safety and reliability for those working and training in the manufacture of biscuits, cookies and crackers. Each manual provides a self-sufficient guide to a key topic, full of practical advice on problem-solving and troubleshooting drawn from over 30 years in the industry. Chocolate Enrobing o Moulding o Sandwich Creaming o Icing o Application of Jam o Marshmallow o Caramel o Troubleshooting Tips This manual describes what is involved in secondary processes of biscuits-the procedures used to enhance biscuits after they have been baked.

Biscuit, Cookie and Cracker Process and Recipes - Glyn Barry Sykes 2020-02-28

Biscuit, Cookie and Cracker Process and Recipes: A practical reference for a wide range of recipes and production information for crackers, snack crackers, semi-sweet biscuits, short doughs, cookies and sandwich biscuits. These recipes have been developed in Europe, Asia, Australia, North America and South America. Beginning with an explanation of the production process and formulations, this book provides easy-access information for developing new biscuits, cookies and crackers for international markets. All the process details, formulations, technical information are based on the notes and files of the late Glyn Sykes. Glyn gained wide experience over a working lifetime in the biscuit baking industry, working with over fifty biscuit manufacturers world-wide. Glyn Sykes family have made the information available for the new book, which is a valuable reference for professionals in the biscuit baking

industry and students in the food technology field. Includes more than 200 recipes and images to show the process of making crackers, semi-sweet biscuits, short dough biscuits and

cookies Presents practical recipes as the basis for development of products using locally available ingredients and production equipment Provides insight from long experience in the baking industry world-wide