

Handbook Of Food Powders Processes And Properties Woodhead Publishing Series In Food Science Technology And Nutrition

Lockhart and Wiseman's Crop Husbandry Including Grassland
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BECKER TORRES

Lockhart and Wiseman's Crop Husbandry Including Grassland Woodhead Publishing
 Allergens in food and their detection, management and elimination constitute a key issue for food manufacturers, especially in terms of safety. This book reviews current and emerging technologies for detecting and reducing allergens, as well as issues such as traceability, regulation and consumer attitudes. Following an introductory chapter by a distinguished expert, part one covers allergen management throughout the food chain. Part two details current and emerging methods of allergen detection in food, and part three covers methods for reducing and eliminating allergens in food. Finally, part four focuses on the control and detection of individual food allergens and the risks each one presents in food manufacture. Reviews current and emerging technologies for detecting and reducing allergens, as well as issues such as traceability, regulation and consumer attitudes Covers allergen management throughout the food chain and reviews current and emerging methods of allergen detection Examines methods for reducing and eliminating allergens in food and provides a detailed overview of the control and detection of individual food allergens
Volume 2: Microbiology, Packaging, HACCP and Ingredients Elsevier
 Food contact materials such as packaging, storage containers and processing surfaces can pose a substantial hazard to both food manufacturer and consumer due to the migration of chemicals or other substances from the material to the food, which can cause tainting of flavours and other sensory characteristics, or even illness. This book reviews the main materials used for food contact in terms of the global legislation in place to ensure their safe and effective use. Part One provides an overview of food contact legislation issues such as chemical migration and compliance testing. Part Two looks in detail at the legislation for specific food contact materials and their advantages, hazards and use in industry. Includes global coverage of food contact legislation Features expert analysis of future trends in global food packaging regulation Focus on specific materials such as plastic, paper and rubber materials in contact with food
Improving and Tailoring Enzymes for Food Quality and Functionality Elsevier
 Spray drying is a mechanical process by which materials in liquid form can be converted into solid form such as powders. It is a rapid, continuous, cost-effective, reproducible and scalable process for producing dry powders from a fluid material by atomization through an atomizer into a hot drying gas medium, usually air. The Handbook on Spray Drying Applications for Food Industries deals with recent techniques adopted in spray drying systems for drying a vast array of food products, novel and emerging tools used for spray drying of antioxidant rich products, optimized conditions used for extraction and production of herbal powders by using spray drying techniques, and problems encountered during spray drying of acid and sugar rich foods and also various herbal powders. The book discusses the encapsulation of flavors by using the spray drying process providing a comparison with other encapsulation techniques. It reviews the retention of bioactive compounds and the effect of different parameters on bioactive compounds during spray drying of juice. Moreover, the book explains the effect of novel approaches of spray drying on nutrients. The book addresses strategies adopted for retention of nutrients and survival of probiotic bacteria during spray drying processing. It also identifies packaging material needed for enhanced product stability. The safety and quality aspects of manufacturing spray dried food products are discussed. Key Features: Describes the design of high performance spray drying systems Highlights the strategy adopted for maximizing the yield potential of various spray dried food products Discusses strategies

adopted for retention of nutrients and survival of probiotic bacteria during spray drying process Contains charts, procedure flow sheets, tables, figures, photos, and a list of spray drying equipment suppliers This book will benefit entrepreneurs, food scientists, academicians and students by providing in-depth knowledge about spray drying of foods for quality retention and also for efficient consumer acceptability of finished products.

Quantitative Microbiology in Food Processing CRC Press

This useful reference is the first book to address key aspects of food powder technology. It assembles organized and updated information on the physical properties, production, and functionality of food powder, previously unavailable in book form.

Volume 1. The Science of Beverages Elsevier

Food Structure and Functionality helps users further understand the latest research related to food structuring and de-structuring, with an emphasis on structuring to achieve improved texture, taste perception, health and shelf-stability. Topics covered address food structure, nanotechnology and functionality, with an emphasis on the novel experimental and modeling approaches used to link structure and functionality in food. The book also covers food structure design across the lifespan, as well as design for healthcare and medical applications. Dairy matrices for oral and gut functionality is also discussed, as is deconstructing dairy matrices for the release of nutrient and flavor components. This book will benefit food scientists, technologists, engineers and physical chemists working in the whole food science field, new product developers, researchers, academics and professionals working in the food industry, including nutritionists, dieticians, physicians, biochemists and biophysicists. Covers recent trends related to non-thermal processes, nanotechnology and modern food structures in the food industry Begins with an introduction to the structure/function of food products and their characterization methods Addresses biopolymer composites, interfacial layers in food emulsions, amyloid-like fibrillary structures, self-assembly in foods, lipid nano-carriers, microfluidics, rheology and function of hydrocolloids Discusses applications and the effects of emerging technologies on process, structure and function relationships

Specialty Oils and Fats in Food and Nutrition Springer Nature

Advances in Food Traceability Techniques and Technologies: Improving Quality Throughout the Food Chain covers in detail a topic of great importance to both the food industry which is obliged to provide clear and accurate labeling of their products and the government and other organizations which are tasked with verification of claims of food quality and safety. The traceability of food products is becoming ever more important as globalization continues to increase the complexity of food chains. Coverage in the book includes the wide range of technologies and techniques which have been utilized in the tracing of food products. In addition, the ways in which the misuse of food traceability will affect the quality of food is also covered throughout. The first part of the book introduces the concept of traceability in the food industry, highlighting advantages of a robust traceability and the difficulties involved in implementing them. The second part looks at the technologies used to trace products, and the third section reviews the legal requirements for food traceability in the EU, the US, and the rest of the world. The final section contains a number of case studies which evaluate how food traceability has been successfully implemented in various foods focusing on the quality of the food. Provides a wide ranging overview of all recent advances in food traceability techniques and technologies Presents case studies covering when food traceability techniques have been applied to a range of food stuffs Covers the legal aspects of food traceability in the EU, the USA, and around the world

Microscopy, Measurement and Modelling Springer

Natural additives are increasingly favoured over synthetic ones as methods of ensuring food safety

and long shelf-life. The antimicrobial properties of both plant-based antimicrobials such as essential oils and proteins such as bacteriocins are used in, for example, edible preservative films, in food packaging and in combination with synthetic preservatives for maximum efficacy. New developments in delivery technology such as nanoencapsulation also increase the potential of natural antimicrobials for widespread use in industry. Part one introduces the different types of natural antimicrobials for food applications. Part two covers methods of application, and part three looks at determining the effectiveness of natural antimicrobials in food. Part four focuses on enhancing quality and safety, and includes chapters on specific food products. Reviews different types of antimicrobials used in food safety and quality Covers how antimicrobials are created to be used in different foods Examines how the antimicrobials are used in foods to enhance the safety and quality

Woodhead Publishing

Production and Management of Beverages, Volume One in the Science of Beverages series, introduces the broad world of beverage science, providing an overview of the emerging trends in the industry and the potential solutions to challenges such as sustainability and waste. Fundamental information on production and processing technologies, safety, quality control, and nutrition are covered for a wide range of beverage types, including both alcoholic and nonalcoholic beverages, fermented beverages, cocoa and other powder based beverages and more. This is an essential resource for food scientists, technologists, chemists, engineers, microbiologists and students entering into this field. • Describes different approaches to waste management and eco-innovative solutions for the wine and beer industry • Offers information on ingredient traceability to ensure food safety and quality • Provides overall coverage of hot topics and scientific principles in the production and management of beverages for sustainable industry

Production and Management of Beverages Woodhead Publishing

Food Processing Technology: Principles and Practice, Fourth Edition, has been updated and extended to include the many developments that have taken place since the third edition was published. The new edition includes an overview of the component subjects in food science and technology, processing stages, important aspects of food industry management not otherwise considered (e.g. financial management, marketing, food laws and food industry regulation), value chains, the global food industry, and over-arching considerations (e.g. environmental issues and sustainability). In addition, there are new chapters on industrial cooking, heat removal, storage, and distribution, along with updates on all the remaining chapters. This updated edition consolidates the position of this foundational book as the best single-volume introduction to food manufacturing technologies available, remaining as the most adopted standard text for many food science and technology courses. Updated edition completely revised with new developments on all the processing stages and aspects of food industry management not otherwise considered (e.g. financial management, marketing, food laws, and food industry regulation), and more Introduces a range of processing techniques that are used in food manufacturing Explains the key principles of each process, including the equipment used and the effects of processing on micro-organisms that contaminate foods Describes post-processing operations, including packaging and distribution logistics Includes extra textbook elements, such as videos and calculations slides, in addition to summaries of key points in each chapter

Spray Drying Encapsulation of Bioactive Materials John Wiley & Sons

This book is a source of basic and advanced knowledge in food science for students or professionals in the food science sector, but it is also accessible for people interested in the different aspects concerning raw material stabilisation and transformation in food products. It is an updated and translated version of the book "Science des aliments" published in 2006 by Lavoisier. "Science des aliments" is a general and introductory food science and technology handbook, based on the authors' Masters and PhD courses and research experiences. The book is concise, pedagogical and informative and contains numerous illustrations (approximately 500 original figures and tables). In three volumes, it summarizes the main knowledge required for working in food industries as scientists, technical managers or qualified operators. It will also be helpful for the formation of students in food science and biotechnologies (bachelor's and master's degree).

Improving Quality Throughout the Food Chain Elsevier

Food safety is a constant challenge for the food industry, and food irradiation technology has developed significantly since its introduction, moving from isotope irradiation to the use of electron beam technology. Electron Beam Pasteurization and Complementary Food Processing Technologies explores the application of electron beam pasteurization in conjunction with other food processing technologies to improve the safety and quality of food. Part one provides an overview of the issues surrounding electron beam pasteurization in food processing. Part two looks at different thermal and non-thermal food processing technologies that complement irradiation. Finally, a case study section on the commercial applications of e-beam processing provides examples from industry.

Biosensor Technologies, Hyperspectral Imaging and Practical Applications Woodhead Publishing

Specialty Oils and Fats in Food and Nutrition: Properties, Processing and Applications examines the main specialty oils and fats currently in use in food processing, as well as those with significant potential. Specialty oils and fats have an increasing number of applications in the food industry, due to growing consumer interest in "clean label functional foods and the emerging markets in "free-from and specialist foods. Part One of this book covers the properties and processing of specialty oils and fats, with a focus on the chemistry, extraction, and quality of different fats and oils, including chapters on shea butter, tropical exotic oils, and structured triglycerides. Part Two looks at the applications of specialty oils and fats in different food and nutraceutical products, such as confectionery, ice cream, and margarine. *Specialty Oils and Fats in Food and Nutrition* is a key text for R&D managers and product development personnel working in the dairy, baking, and dairy analogue sectors, or any sector using fats and oils. It is a particularly useful reference point for companies reformulating their products or developing new products to alter fat content, as well as academics with a research interest in the area, such as lipid scientists or food scientists. Authored by an industry expert with 35 years of experience working for Unilever and Lodders Croklaan Broad coverage encompasses tropical exotic oils, tree nut oils, algal oils, GM vegetable oils, and more Addresses growing application areas including nutraceuticals, infant formula, and ice cream and confectionery

A Complete Course in Canning and Related Processes Woodhead Publishing

Handbook of Food Powders Processes and Properties Elsevier

Processing of Foods and Biomass Feedstocks by Pulsed Electric Energy Elsevier

Many food ingredients are supplied in powdered form, as reducing water content increases shelf life and aids ease of storage, handling and transport. Powder technology is therefore of great importance to the food industry. The Handbook of food powders explores a variety of processes that are involved in the production of food powders, the further processing of these powders and their functional properties. Part one introduces processing and handling technologies for food powders and includes chapters on spray, freeze and drum drying, powder mixing in the production of food powders and safety issues around food powder production processes. Part two focusses on powder properties including surface composition, rehydration and techniques to analyse the particle size of food powders. Finally, part three highlights speciality food powders and includes chapters on dairy

powders, fruit and vegetable powders and coating foods with powders. The Handbook of food powders is a standard reference for professionals in the food powder production and handling industries, development and quality control professionals in the food industry using powders in foods, and researchers, scientists and academics interested in the field. Explores the processing and handling technologies in the production of food powders Examines powder properties, including surface composition, shelf life, and techniques used to examine particle size Focusses on speciality powders such as dairy, infant formulas, powdered egg, fruit and vegetable, and culinary and speciality products

Principles and Practice CRC Press

Lipid oxidation in food leads to rancidity, which compromises the sensory properties of food and makes it unappealing to consumers. The growing trend towards natural additives and preservatives means that new antioxidants are emerging for use in foods. This book provides an overview of the food antioxidants currently available and their applications in different food products. Part one provides background information on a comprehensive list of the main natural and synthetic antioxidants used in food. Part two looks at methodologies for using antioxidants in food, focusing on the efficacy of antioxidants. Part three covers the main food commodities in which antioxidants are used. Reviews the various types of antioxidants used in food preservation, including chapters on tea extracts, natural plant extracts and synthetic phenolics Analyses the performance of antioxidants in different food systems Compiles significant international research and advancements

Physical Properties, Processing, and Functionality Elsevier

Continuing food poisoning outbreaks around the globe have put fresh produce safety at the forefront of food research. Global Safety of Fresh Produce provides a detailed and comprehensive overview of best practice for produce safety throughout the food chain, and unique coverage of commercial technologies for fresh produce safety. Part one covers the production and regulation of fresh produce on the agricultural level, including issues of niche farm fresh products, FDA regulation, and zoonotic transfer of pathogens from animals to farm products. Part two moves on to look at safety and environmental issues surrounding fresh produce processing, such as postharvest washing, alternative sanitizers, and using produce waste as animal feed. Part three focuses on current and emerging commercial solutions for fresh produce safety, like ionizing radiation and edible coatings, and part four covers methods of laboratory testing and related legislation. The final section of the book covers a series of case studies of fresh produce safety breaches, including European E. coli outbreaks in sprouts and leafy greens, and the illegal use of fluorescent whitening agents (FWAs) in China. This book is an essential text for R&D managers in the fresh produce industry, quality control professionals working with fresh produce throughout the food chain, postgraduate students, and academic researchers with an interest in fresh produce safety. Provides a comprehensive overview of best practice for produce safety Examines the production and regulation of fresh agricultural produce Looks at safety and environmental issues surrounding fresh produce processing

Metabolomics in Food and Nutrition Woodhead Publishing

Computational modeling is an important tool for understanding and improving food processing and manufacturing. It is used for many different purposes, including process design and process optimization. However, modeling goes beyond the process and can include applications to understand and optimize food storage and the food supply chain, and to perform a life cycle analysis. Modeling Food Processing Operations provides a comprehensive overview of the various applications of modeling in conventional food processing. The needs of industry, current practices, and state-of-the-art technologies are examined, and case studies are provided. Part One provides an introduction to the topic, with a particular focus on modeling and simulation strategies in food processing operations. Part Two reviews the modeling of various food processes involving heating and cooling. These processes include: thermal inactivation; sterilization and pasteurization; drying; baking; frying; and chilled and frozen food processing, storage and display. Part Three examines the modeling of multiphase unit operations such as membrane separation, extrusion processes and food digestion, and reviews models used to optimize food distribution. Comprehensively reviews the various applications of modeling in conventional food processing Examines the modeling of multiphase unit operations and various food processes involving heating and cooling Analyzes the models used to optimize food distribution

Fundamentals and Operations in Food Process Engineering CRC Press

Encapsulation is a topic of interest across a wide range of scientific and industrial areas, from pharmaceuticals to food and agriculture, for the protection and controlled release of various substances during transportation, storage, and consumption. Since encapsulated materials can be protected from external conditions, encapsulation enhances their stability and maintains their viability. This book offers a comprehensive review of conventional and modern methods for encapsulation. It covers various thermal and nonthermal encapsulation methods applied across a number of industries, including freeze drying, spray drying, spray chilling and spray cooling, electrospinning/electrospraying, osmotic dehydration, extrusion, air-suspension coating, pan coating, and vacuum drying. The book presents basic fundamentals, principles, and applications of each method, enabling the reader to gain extended knowledge. The choice of the most suitable encapsulation technique is based on the raw materials, the required size, and the desirable characteristics of the final products.

Processes and Properties Woodhead Publishing

Packed with case studies and problem calculations, Handbook of Food Processing: Food Preservation presents the information necessary to design food processing operations and goes on to describe the equipment needed to carry them out in detail. The book covers every step in the sequence of converting raw material to the final product. It also discusses the most common food engineering unit operations and food preservation processes, such as blanching, pasteurization, chilling, and freezing to aseptic packaging, non-thermal food processing, and the use of biosensors. Highlights Include Case study on the effect of blanching conditions on sulforaphane content in purple and roman cauliflower (brassica oleracea l. Var. Botrytis) Principles of thermal processing described along with thermal process calculations Case study on microwave preservation of fruit-based products: application to kiwifruit puree Principles and applications of Ohmic heating Advances in food additives and contaminants Use of edible films and coatings in fresh fruits and vegetables preservation The book provides information regarding the common food preservation methods such as blanching, thermal processing of foods, canning, extrusion-cooking, drying or dehydration of foods, chilling, and freezing. It also describes the principles and applications of new thermal and non-thermal food processing technologies, i.e., microwave heating, ohmic heating, high pressure (HP) processing, pulsed electric field (PEF) processing, magnetic fields, ultrasound, use of edible films and coatings, food packaging-aseptic packaging, and modified atmosphere, biosensor and ozone applications. The book helps you keep up with diverse consumer demands and rapidly developing markets.

Food Preservation John Wiley & Sons

Metabolomics enables valuable information about the biochemical composition of foods to be rapidly obtained. Since the biochemical profile of food largely determines key food properties such as flavour and shelf life, the information gained using metabolomics-based methods will enable greater control of food quality and also help to determine the relationship between diet and health.

Metabolomics in food and nutrition provides an overview of their current and potential use in the food industry. Part one reviews equipment, methods and data interpretation in metabolomics including the use of nuclear magnetic resonance (NMR), statistical methods in metabolomics, and metabolic reconstruction databases and their application to metabolomics research. Part two explores applications of metabolomics in humans, plants and food. Chapters discuss metabolomics in nutrition, human samples for health assessments, and current methods for the analysis of human milk oligosaccharides (HMOs) and their novel applications. Further chapters highlight metabolomic analysis of plants and crops, metabolomics for the safety assessment of genetically modified (GM)

crops, and applications of metabolomics in food science including food composition and quality, sensory and nutritional attributes. With its distinguished editors and team of expert contributors, Metabolomics in food and nutrition is a technical resource for industrial researchers in the food and nutrition sectors interested in the potential of metabolomics methods and academics and postgraduate students working in the area. Provides an overview of the current and potential future use of metabolomics in the food industry Chapters focus on key applications and review the analytical methods used and the bioinformatics techniques involved in processing the results Discusses metabolomics in nutrition, human samples for health assessments, and current methods for the analysis of human milk oligosaccharides (HMOs) and their novel applications

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