

Improving The Safety And Quality Of Eggs And Egg Products Egg Safety And Nutritional Quality Woodhead Publishing Series In Food Science Technology And Nutrition Pdf Pdf

... Improving safety, nutrition and quality Edited by J. P. Kerry and J. F. Kerry Food chain integrity: A holistic ... eggs and egg products Volume 1 Edited by Y. Nys, M. Bain and F. Van Immerseel **Improving the safety and quality of eggs** and ...

Improving the Safety and Quality of Eggs and Egg Products 2011 Yves Nys

Improving the Safety and Quality of Eggs and Egg Products 2011-08-19 Y Nys Eggs are economical and of high nutritional value, yet can also be a source of foodborne disease. Understanding of the factors influencing egg quality has increased in recent years and new technologies to assure egg safety have been developed. Improving the safety and quality of eggs and egg products reviews recent research in these areas. Volume 1 focuses on egg chemistry, production and consumption. Part one sets the scene with information on egg production and consumption in certain countries. Part two then provides essential information on egg formation and chemistry. Factors that impact egg quality are the focus of part three. Chapters cover the role of poultry breeding, hen nutrition and laying environment, among other significant topics. Part four addresses organic and free range egg production, the impact of egg production on the environment and non-poultry eggs. A chapter on processed egg products completes the volume. With its

Improving The Safety And Quality Of Eggs And Egg Products distinguished editors and international team of contributors, Volume 1 of **Egg Safety And Nutritional Quality Woodhead Publishing Series In Food Science Technology And Nutrition Pdf Pdf** upload Mia p Paterson

Improving the safety and quality of eggs and egg products is an essential reference for managers in the egg industry, professionals in the food industry using eggs as ingredients and all those with a research interest in the subject. Focuses on egg chemistry, production and consumption with reference to the factors than can impact egg quality Reviews recent research in the areas of disease, egg quality and the development of new technologies to assure egg safety Comprehensively covers organic, free-range and processed egg production

Improving the Safety and Quality of Eggs and Egg Products 2011-08-19 F Van Immerseel Eggs are economical and of high nutritional value, yet can also be a source of foodborne disease. Understanding of the factors influencing egg quality has increased in recent years and new technologies to assure egg safety have been developed. Improving the safety and quality of eggs and egg products reviews recent research in these areas Volume 2 focuses on egg safety and nutritional quality. Part one provides an overview of egg contaminants, covering both microbial pathogens and chemical residues. Salmonella control in laying hens is the focus of part two. Chapters cover essential topics such as monitoring and control procedures in laying flocks and egg decontamination methods. Finally, part three looks at the role of eggs in nutrition and other health applications. Chapters cover dietary cholesterol, egg

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allergy, egg enrichment and bioactive fractions of eggs, among other topics. With its distinguished editors and international team of contributors, Volume 2 of Improving the safety and quality of eggs and egg products is an essential reference for managers in the egg industry, professionals in the food industry using eggs as ingredients and all those with a research interest in the subject. Focuses on egg safety and nutritional quality with reference to egg contaminants such as Salmonella Enteritidis Chapters discuss essential topics such as monitoring and control procedures in laying flocks and egg decontamination methods Presents a comprehensive overview of the role of eggs in nutrition and other health applications including dietary cholesterol, egg allergy, egg enrichment and bioactive fractions of eggs

Improving the Safety and Quality of Eggs and Egg Products 2011 Yves Nys

New developments in packaging of eggs to improve safety and quality 2016 Pietro Rocculi

Improving the Safety and Quality of Nuts 2013-10-31 Linda J Harris As tree nuts and peanuts become increasingly recognised for their health-promoting properties, the provision of safe, high quality nuts is a growing concern. Improving the safety and quality of nuts reviews key aspects of nut safety and quality management. Part one explores production and processing practices and their influence on nut contaminants. Chapters discuss agricultural practices to reduce microbial contamination of nuts, pest control in postharvest nuts, and the impact of nut postharvest handling, de-shelling, drying and storage on quality. Further chapters review the validation of processes for reducing the microbial load on nuts and integrating Hazard Analysis Critical Control Point (HACCP) and Statistical Process Control (SPC) improving nut quality

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and safety and highlight oxidative rancidity in nuts, the impact of roasting on nut quality, and advances in automated nut sorting. Final chapters explore the safety and quality of a variety of nuts including almonds, macadamia nuts, pecans, peanuts, pistachios and walnuts. Improving the safety and quality of nuts is a comprehensive resource for food safety, product development and QA professionals using nuts in foods, those involved in nut growing, nut handling and nut processing, and researchers in food science and horticulture departments interested in the area. Reviews key aspects of nut safety and quality management and addresses the influences of production and processing practices on nut safety Analyses particular nut contaminants, safety management in nut processing and significant nut quality issues, such as oxidative rancidity Places focus on quality and safety in the production and processing of selected types of nuts

Egg Innovations and Strategies for Improvements 2016-12-19 Patricia Hester Egg Innovations and Strategies for Improvements examines the production of eggs from their development to human consumption. Chapters also address consumer acceptance, quality control, regulatory aspects, cost and risk analyses, and research trends. Eggs are a rich source of macro- and micronutrients which are consumed not only by themselves, but also within the matrix of food products, such as pastas, cakes, and pastries. A wholesome, versatile food with a balanced array of essential nutrients, eggs are a staple of the human diet. Emerging strategies entail improvements to the composition of eggs via fortification or biological enrichment of hen's feed with polyunsaturated fatty acids, antioxidants, vitamins, or minerals. Conversely, eggs can be a source of food-borne disease or pollutants that can have effects on not only human health, but also egg production and commercial viability. Written by an international team of experts, the book presents a unique overview of the biology and science of egg production, nutrient profiling,

disease, and modes for increasing their production and quality. Designed for poultry and food scientists, technologists, microbiologists, and workers in public health and the food and egg industries, the book is valuable as an industrial reference and as a resource in academic libraries. Focuses on the production and food science aspects of eggs Includes a broad range of microbial contaminants, their risks, and prevention, as well as non-microbial contaminant risks Presents analytical techniques for practical application

Achieving Sustainable Production of Eggs Volume 1 2017 Julie Roberts (Associate professor) This collection begins by looking at egg composition and chemistry. This provides a foundation for discussing pathogenic contamination of eggs and methods for its prevention, detection and control. The book concludes by assessing factors affecting egg appearance, shelf-life, nutritional value and other quality traits.

Producing Safe Eggs 2016-09-13 Steven C Ricke Producing Safe Eggs: Microbial Ecology of Salmonella takes the unique approach of interfacing problems of Salmonella and microbial contamination with commercial egg production. It presents in-depth information on microbial contamination, safety and control, physiology, immunology, neurophysiology, and animal welfare, which makes this book a complete reference for anyone involved in the safe production of eggs and egg products in the food industry. This book discusses management and risk factors across the entire egg production process, including practical applications to decrease disease and contaminated food products in poultry houses, processing plants and retail businesses. It is an integral reference for food scientists, food safety and quality professionals, food processors, food production managers, and food business owners, as well as students in food science, safety, microbiology, and animal science. Includes

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salmonella risks Presents hot topics regarding vaccination, egg-in-shell pasteurization, and other new technologies currently under development Provides risk assessment strategies for implementation in business operations Discusses management and risk factors across the entire egg production process, including practical applications to decrease disease and contaminated food products in poultry houses, processing plants, and retail businesses Offers a complete reference for anyone involved in the safe production of eggs and egg products in the food industry

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It Starts with the Egg 2019-02-28 Rebecca Fett A practical and evidence-backed approach for improving egg quality and fertility-- fully revised and updated in 2019. The latest scientific research reveals that egg quality has a powerful impact on how long it takes to get pregnant and the risk of miscarriage. Poor egg quality is in fact the single most important cause of age-related infertility, recurrent miscarriage, and failed IVF cycles. Based on a vast array of scientific research, It Starts with the Egg provides a comprehensive program for improving egg quality in three months, with specific advice tailored to a variety of fertility challenges-- including endometriosis, unexplained infertility, diminished ovarian reserve, PCOS, and recurrent miscarriage. With concrete strategies such as minimizing exposure to common environmental toxins, choosing the right vitamins and supplements to safeguard developing eggs, and harnessing nutritional advice

shown to boost IVF success rates, this book offers practical solutions that will help you get pregnant faster and deliver a healthy baby.

The Egg Quality Diet: A Clinically Proven 100-day Fertility Diet to Balance Hormones, Reduce Inflammation, Improve Egg Quality and Optimize
2021-06-13 Aimee E. Raupp The Egg Quality Diet is the culmination of what Aimee Raupp has found, during her two decades of clinical practice, to be the most effective nutritional approach to optimizing fertility. This diet has been proven to work not in a randomized control trial (RCT) but in real life, on thousands of real women like you. Real women who have been told they have no good eggs left or they are too old or they are in menopause. This diet has been proven in women with high follicle stimulating hormone (FSH), low anti-mullerian hormones (AMH), recurrent pregnancy loss (RPL), multiple failed in-vitro fertilizations (IVF) and intrauterine inseminations (IUI). This diet has been proven in women with endometriosis, miscarriage, poly-cystic ovarian syndrome (PCOS), fibroids, cysts, adenomyosis, asherman's syndrome, premature ovarian failure (POF) and hypothalamic amenorrhea. This diet has helped hundreds of women, even those in their mid to late forties, make healthy babies using their own eggs. This diet has helped women bring their FSH from above 50 down to 10. This diet has helped women double, even triple their AMH. Even more, this diet has been recommended by multiple reproductive endocrinologists (R.E.) to their clients.

Handbook of Natural Antimicrobials for Food Safety and Quality 2014-11-04 M Taylor 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 ~~improving the safety and quality of eggs and egg products~~ preservative films, in food
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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

Achieving Sustainable Production of Eggs Volume 2 2017 Julie Roberts (Associate professor) Welfare and sustainability are now major issues in egg production. This book reviews nutrition and other aspects of husbandry affecting laying hens as well as the environmental impact of egg production and how it can be made more sustainable.

Egg Safety 2000 United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on Oversight of Government Management, Restructuring, and the District of Columbia

Improving and Tailoring Enzymes for Food Quality and Functionality 2015-07-28 Rickey Y. Yada Improving and Tailoring Enzymes for Food Quality and Functionality provides readers with the latest information on enzymes, a biological processing tool that offers the food industry a unique means to control and tailor specific food properties. The book explores new techniques in the production, engineering, and application of enzymes, covering sourcing, isolation, and production of enzymes for food applications.

In addition, chapters include detailed discussions of enzyme processing, analytical and diagnostic applications of enzymes in the food industry, and enzyme applications in specific food commodities. Provides readers with the latest information on enzymes and their unique applications in the food industry Explores new techniques in the production, engineering, and application of enzymes, covering sourcing, isolation, and production of enzymes for food applications Chapters include detailed discussions of enzyme processing, engineering and analytical and diagnostic applications of enzymes in the food industry, and enzyme applications in specific food commodities

Cracking the Egg Myth 2020-02-04 Julie Chang Do any of these situations apply to you? *You're over 35 years of age and trying to get pregnant. *You've been told that you're too old to get pregnant with your own eggs. *You've had pregnancy losses. *You're preparing for IVF. Since 2000, natural fertility expert Julie Chang has helped women over 35 years halt the aging process to get pregnant and stay pregnant with a healthy baby. Julie combines her extensive clinical experience with scientifically supported strategies to provide a holistic approach to improving fertility naturally. In this guide, you will: - Identify behaviors that hurt your fertility unknowingly. - Make better food choices to support the growth of a thriving baby. - Create a healthier lifestyle for improved fertility. In doing so, you'll feel more optimistic and hopeful, knowing that it's not too late for a woman over 35 years and into her 40s to have her own child. You will be empowered to make better choices on your fertility journey, optimizing your chances of success every cycle. "Julie Chang's Cracking the Egg Myth is a unique guide to the way complementary medicine can improve pregnancy outcomes for women in their late 30/early 40's. She offers experienced insight into the combined Eastern/Western approach to infertility." - Arlene J Morales, MD, Medical Director, Fertility

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Nanotechnology in the Food, Beverage and Nutraceutical Industries 2012-04-19 Qingrong Huang Nanotechnology has the potential to impact on food processing significantly. This important book summarises current research in this area and provides an overview of both current and possible future applications of nanotechnologies in the food industry. Issues such as safety and regulation are also addressed. After an introductory overview, the first part discusses general issues such as risk assessment, the regulatory framework, detection and characterisation of nanoparticles in food. Part two summarises the wide range of applications of nanotechnology in food processing, including nanoscale nutraceutical delivery systems, nanoemulsions and colloids, nanoscale rapid detection devices for contaminants, nanofiltration and nanocomposite packaging materials. With its distinguished editor and international team of contributors, Nanotechnology in the food, beverage and nutraceutical industries is a valuable reference work for both food processors and those researching this expanding field. Discusses issues such as risk assessment, regulatory framework, detection and characterisation of nanoparticles in food Summarises the wide range of applications of nanotechnology in food processing, including nutraceutical delivery and packaging materials Written by a distinguished team of international contributors, this book is an invaluable reference for industry professionals and academics alike

Manley's Technology of Biscuits, Crackers and Cookies 2011-09-28 Duncan Manley 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

Advances in Microbial Food Safety 2014-11-25 J Sofos Research and legislation in food microbiology continue to evolve, and outbreaks of foodborne disease place further pressure on the industry to provide microbiologically safe products. This second volume in the series *Advances in Microbial Food Safety* summarises major recent advances in this field, and complements volume 1 to provide an essential overview of developments in food microbiology. Part one opens the book with an interview with a food safety expert. Part two provides updates on single pathogens, and part three looks at pathogen detection, identification and surveillance. Part four covers pathogen control

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management. Extends the breadth and coverage of the first volume in the series Includes updates on specific pathogens and safety for specific foods Reviews both detection and management of foodborne pathogens

Instrumental Assessment of Food Sensory Quality 2013-09-30 David Kilcast Instrumental measurements of the sensory quality of food and drink are of growing importance in both complementing data provided by sensory panels and in providing valuable data in situations in which the use of human subjects is not feasible. Instrumental assessment of food sensory quality reviews the range and use of instrumental methods for measuring sensory quality. After an introductory chapter, part one goes on to explore the principles and practice of the assessment and analysis of food appearance, flavour, texture and viscosity. Part two reviews advances in methods for instrumental assessment of food sensory quality and includes chapters on food colour measurement using computer vision, gas chromatography-olfactometry (GC-O), electronic noses and tongues for in vivo food flavour measurement, and non-destructive methods for food texture assessment. Further chapters highlight in-mouth measurement of food quality and emerging flavour analysis methods for food authentication. Finally, chapters in part three focus on the instrumental assessment of the sensory quality of particular foods and beverages including meat, poultry and fish, baked goods, dry crisp products, dairy products, and fruit and vegetables. The instrumental assessment of the sensory quality of wine, beer, and juices is also discussed. Instrumental assessment of food sensory quality is a comprehensive technical resource for quality managers and research and development personnel in the food industry and researchers in academia interested in instrumental food quality measurement. Reviews the range and use of instrumental methods for measuring sensory quality Explores the principles and practice of the assessment and analysis of food appearance, flavour, texture and viscosity

Reviews advances in methods for instrumental assessment of food sensory quality

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

Early Nutrition and Long-Term Health 2016-11-29 Jose M Saavedra The nutrition of an individual during gestation and the first two years of life—the

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quantity in this period can influence the risk of developing diseases that constitute today's epidemics. Early-life nutrition can program the body's tissues, organ structure and function, and metabolic and immunologic responses. These factors impact growth, development and cognition, and the risk of cardiovascular diseases, allergies and obesity. The first part of Early Nutrition and Long-Term Health examines the mechanisms by which early nutrition affects the risk of developing these conditions. The second part of this book reviews specific non-communicable diseases (NCDs) associated with early nutrition. The third part discusses the effects of nutritional programming from fetal life to toddlerhood. Prevention of over- or undernutrition in early life, rather than dietary, behavioral or therapeutic interventions in later life, is likely to have a greater return on society's investment in coping with the modern epidemic of NCDs. Examines the relation between early life nutrition and long-term health Covers the mechanistic aspects of nutritional programming and its impact on risk of chronic non-communicable diseases Reviews associations between infant and child diet and its effect on growth, development, cognition and later occurrence of cardiovascular diseases, allergies, metabolic conditions and obesity

Global Safety of Fresh Produce 2014-02-14 Jeffrey Hoorfar 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

Case Studies in Food Safety and Authenticity 2012-06-25 Jeffrey Hoorfar The identification and control of food contaminants rely on careful investigation and implementation of appropriate management strategies. Using a wide range of real-life examples, Case studies in food safety and authenticity provides a vital insight into the practical application of strategies for control and prevention. Part one provides examples of recent outbreak investigations from a wide range of experts around the world, including lessons learnt, before part two goes on to explore examples of how the source was traced and the implications for the food chain. Methods of crisis management are the focus of part three, whilst part four provides studies of farm-level interventions and the tracking of contaminants before they enter the food chain. Part five is focussed on safe food production, and considers the challenges of regulatory testing and certification, hygiene control and

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of issues related to food adulteration and authenticity. With its distinguished editor and international team of expert contributors, Case studies in food safety and authenticity is a key reference work for those involved in food production, including quality control, laboratory and risk managers, food engineers, and anyone involved in researching and teaching food safety. Delivers a vital insight into the practical application of strategies for control and prevention of food contaminants Provides detailed examples of recent outbreak investigations from a wide range of international experts, discussing how the source was traced and the implications for the food chain Chapters discuss methods of crisis management, farm-level interventions, safe food production and the challenges of regulatory testing and certification

High Throughput Screening for Food Safety Assessment 2014-09-06 Arun K. Bhunia Recent advances in array-based detectors and imaging technologies have provided high throughput systems that can operate within a substantially reduced timeframe and other techniques that can detect multiple contaminants at one time. These technologies are revolutionary in terms of food safety assessment in manufacturing, and will also have a significant impact on areas such as public health and food defence. This book summarizes the latest research and applications of sensor technologies for online and high throughput screening of food. The book first introduces high throughput screening strategies and technology platforms, and discusses key issues in sample collection and preparation. The subsequent chapters are then grouped into four sections: Part I reviews biorecognition techniques; Part II covers the use of optical biosensors and hyperspectral imaging in food safety assessment; Part III focuses on electrochemical and mass-based transducers; and finally Part IV deals with the application of these safety assessment technologies in specific food products, including meat and poultry, seafood, fruits and vegetables. Summarises the latest research on sensor technologies for online and high-

throughput screening of food Covers high-throughput screening and the current and forecast state of rapid contaminant detection technologies Looks at the use of optical and electrochemical biosensors and hyperspectral imaging in food safety assessment and the application of these technologies in specific food products

Rice Quality 2011-06-27 Kshirod R Bhattacharya Rice is a unique and highly significant crop, thought to help feed nearly half the planet on a daily basis. An understanding of its properties and their significance is essential for the provision of high quality products. This is all the more true today as international trade in rice trade has been increasing rapidly in recent years. This important book reviews variability in rice characteristics and their effects on rice quality. After an introduction on rice quality that also explores paradoxes associated with the crop, the book goes on to examine rice physical properties and milling quality. This leads to a discussion of the effects that the degree of milling has on rice quality. The ageing of rice and its cooking and eating quality are investigated in the following chapters before an analysis of the effect of parboiling on rice quality. Later chapters consider the product-making and nutritional quality of rice and investigate speciality rices and rice breeding for desirable quality. The book concludes with an extensive chapter on rice quality analysis and an appendix containing selected rice quality test procedures. With its distinguished author Rice quality: a guide to rice properties and analysis proves an invaluable resource for professionals in the rice industry and researchers and post-graduate students interested in rice. Examines the physical properties of rice, such as grain appearance and density and friction Investigates the ageing of rice and its cooking and eating quality The product making and nutritional aspects of rice are also considered

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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

The Microbiological Quality of Food 2016-12-01 Antonio Bevilacqua The Microbiological Quality of Food: Foodborne Spoilers specifically addresses the role of spoilers in food technology and how they affect the quality of food. Food spoilers represent a great challenge in food quality, determining the shelf-life of many products as they impact consumer acceptability of taste, texture, aroma, and other perceptions. Divided into four sections, the first

section defines microbial spoilage of food, with special emphasis on methods for the evaluation of spoiling phenomena and the status of their regulatory framework, examining both existing regulations and possible gaps. The second section examines spoiling microorganisms, covering a range of common spoilage microorganisms, including pseudomonas, yeasts, and molds and spore formers, as well as less-common spoilers, including lactic acid bacteria and specific spoilage organisms in fish. The third section highlights spoiling phenomena within certain food types. Chapters cover dairy, fish, meat, and vegetables, and other products. The final section investigates emerging topics which point to future trends in the research of food spoilers. There is insight into microorganisms resistant to preservation, the role of biofilms in food quality, and the link between food safety and food spoilage, with a special emphasis on certain spoiling microorganisms which could be opportunistic pathogens. Written by an international team of leading authors, this book provides state-of-the-art coverage of this topic, which is essential to the shelf-life and quality of food. Provides in-depth coverage of the different spoilers which cause the deterioration of foods, including less common spoilers not covered in other publications Includes dedicated chapters covering the spoilage of specific products, making this book ideal for those working in the food industry Presents a framework for future research in the area of foodborne spoilers

Foods, Nutrients and Food Ingredients with Authorised EU Health Claims 2015-05-28 Michele Sadler The second volume of Foods, nutrients and food ingredients with authorised EU health claims continues from Volume 1, which provided a comprehensive overview of many of the permitted health claims for foods and nutrients approved under European Regulation EC 1924/2006. This new volume discusses more of the health claims authorised to

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such as the approved wording, conditions of use, the target group for the claims, the evidence for the claimed health benefits, and where appropriate details of other relevant legislation, consumer-related issues and future trends. The book opens with an overview of regulatory developments relating to health claims. Part One reviews authorised disease risk reduction claims and proprietary claims. The second part investigates ingredients with permitted 'general function' claims, with chapters examining ingredients such as red yeast rice, glucomannan and guar gum. The final section of the book explores foods and nutrients with permitted health claims, including chapters on authorised EU health claims for prunes, foods with low or reduced sodium or saturated fatty acids, and claims for essential and long chain polyunsaturated fatty acids. Building on volume 1, this title ensures that the area of EU health claims in food is comprehensively covered Chapters are devoted to individual food ingredients and substances, covering the range of issues related to health claims Health-promoting products are an increasing consumer trend in product development and this book provides key information on these advances

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

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

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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

Functional Ingredients from Algae for Foods and Nutraceuticals 2013-09-30 Herminia Dominguez Algae have a long history of use as foods and for the production of food ingredients. There is also increasing interest in their exploitation as sources of bioactive compounds for use in functional foods and nutraceuticals. Functional ingredients from algae for foods and nutraceuticals reviews key topics in these areas, encompassing both macroalgae (seaweeds) and microalgae. After a chapter introducing the concept of algae as a source of biologically active ingredients for the formulation of functional foods and nutraceuticals, part one explores the structure and occurrence of the major algal components. Chapters discuss the chemical structures of algal polysaccharides, algal lipids, fatty acids and sterols, algal proteins,

phlorotannins, and pigments and minor compounds. Part two highlights biological properties of algae and algal components and includes chapters on the antioxidant properties of algal components, anticancer agents derived from marine algae, anti-obesity and anti-diabetic activities of algae, and algae and cardiovascular health. Chapters in part three focus on the extraction of compounds and fractions from algae and cover conventional and alternative technologies for the production of algal polysaccharides. Further chapters discuss enzymatic extraction, subcritical water extraction and supercritical CO₂ extraction of bioactives from algae, and ultrasonic- and microwave-assisted extraction and modification of algal components. Finally, chapters in part four explore applications of algae and algal components in foods, functional foods and nutraceuticals including the design of healthier foods and beverages containing whole algae, prebiotic properties of algae and algae-supplemented products, algal hydrocolloids for the production and delivery of probiotic bacteria, and cosmeceuticals from algae. Functional ingredients from algae for foods and nutraceuticals is a comprehensive resource for chemists, chemical engineers and medical researchers with an interest in algae and those in the algaculture, food and nutraceutical industries interested in the commercialisation of products made from algae. Provides an overview of the major compounds in algae, considering both macroalgae (seaweeds) and microalgae Discusses methods for the extraction of bioactives from algae Describes the use of algae and products derived from them in the food and nutraceutical industries

New Analytical Approaches for Verifying the Origin of Food 2013-07-31 Paul Brereton Food and beverage labels often specify a product's geographical origin, species, variety and method of production. These claims can significantly influence an item's economic value, but their verification is not

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food reviews new analytical methods in this area together with applications to key commodities. Part one introduces the concept of food origin and provides supporting information on labelling legislation and standards. Part two moves on to explore new approaches for verifying the geographical origin of food using geospatial models and verifying species and varietal components of the food we eat. Holistic methods of verification methods using vibrational spectroscopy and associated chemometrics are also discussed. Finally, part three highlights the applications of new analytical methods to verify the origin of particular food commodities: fish, honey and wine. New analytical approaches for verifying the origin of food is a standard reference for professionals working in analytical laboratories testing food authenticity and for researchers, in the food industry, analytical laboratories and academia, working on the development of analytical methods for food authenticity. Includes a chapter on origin labelling legislation and standards Chapters address the applications of both established and novel methods in key product sectors Reviews new analytical methods and their applications in the food industry

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

Viruses in Food and Water 2013-05-10 N Cook Viruses can be highly infectious and are capable of causing widespread disease outbreaks. The significance of viral pathogens in food and waterborne illness is increasingly being recognised and viruses transferred by these routes are important areas of research. Viruses in food and water reviews the risks, surveillance and control of food and waterborne viral disease. Part one provides an introduction to food and environmental virology. Part two goes on to explore methods of

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includes chapters on molecular detection of viruses in foods and food processing environments, quality control in the analytical laboratory, and quantitative risk assessment for food and waterborne viruses. Part three focuses on virus transmission routes and control of food and water contamination. It contains chapters on fresh produce, shellfish and viral presence, and control methods in waste water and sewage. Finally, part four highlights particular pathogens including norovirus, hepatitis A and emerging zoonotic viruses. Viruses in food and water is a standard reference book for microbiologists in academia, analytical labs and the food and water treatment industries, as well as environmental health professionals and researchers working on foodborne viruses. Explores methods of detection, surveillance and risk assessment of viruses in food and water Considers virus transmission routes and control of food and water contamination Highlights advances in the understanding of specific pathogens, including norovirus, hepatitis A and rotaviruses and the advances in vaccine development

Freezing Fertility 2020-12-15 Lucy van de Wiel Welcomed as liberation and dismissed as exploitation, egg freezing (oocyte cryopreservation) has rapidly become one of the most widely-discussed and influential new reproductive technologies of this century. In Freezing Fertility, Lucy van de Wiel takes us inside the world of fertility preservation—with its egg freezing parties, contested age limits, proactive anticipations and equity investments—and shows how the popularization of egg freezing has profound consequences for the way in which female fertility and reproductive aging are understood, commercialized and politicized. Beyond an individual reproductive choice for people who may want to have children later in life, Freezing Fertility explores how the rise of egg freezing also reveals broader cultural, political and economic negotiations about reproductive politics, gender inequities, age normativities and the financialization of healthcare. Van de Wiel investigates

these issues by analyzing a wide range of sources—varying from sparkly online platforms to heart-breaking court cases and intimate autobiographical accounts—that are emblematic of each stage of the egg freezing procedure. By following the egg's journey, *Freezing Fertility* examines how contemporary egg freezing practices both reflect broader social, regulatory and economic power asymmetries and repoliticize fertility and aging in ways that affect the public at large. In doing so, the book explores how the possibility of egg freezing shifts our relation to the beginning and end of life.

Advances in Fermented Foods and Beverages 2014-09-20 Wilhelm Holzapfel
Fermentation is used in a wide range of food and beverage applications, and the technology for enhancing this process is continually evolving. This book reviews the use of fermentation in foods and beverages and key aspects of fermented food production. Part one covers the health benefits of fermented foods. Part two includes chapters on fermentation microbiology, while part three looks at ways of controlling and monitoring the quality and safety of fermented foods. Part four covers advances in fermentation technology. Finally, part five covers particular fermented food products.

Extrusion Problems Solved 2011-11-09 M N Riaz
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

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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

Hygiene in Food Processing 2014-02-14 H. L. M. Lelieveld
The hygienic processing of food concerns both potential hazards in food products and the regulation, design, and management of food processing facilities. This second edition of *Hygiene in Food Processing* gives a revised overview of the practices for safe processing and incorporates additional chapters concerning pest control, microbiological environmental sampling, and the economics of food plants. Part one addresses microbial risks in foods and the corresponding regulation in the European Union. Part two discusses the hygienic design of food factory infrastructure, encompassing the design and materials for the factory itself, as well as food processing equipment. This edition includes a new chapter on the control of compressed gases used to pneumatically operate equipment. Part three focuses on cleaning and disinfection practices in food

processing. The chapter on cleaning in place also considers more cost-effective systems, and complements the additional chapter on maintenance of equipment. These chapters also explore issues such as the hygiene of workers, potential infection by foreign bodies, and pest control. Further, the chapter on microbiological sampling explains how to calculate the risk of contamination depending on the product's environment. This essential second edition is useful to professionals responsible for hygiene in the food industry. It provides a comprehensive, yet concise and practical reference source for food plant managers, suppliers of food processing equipment, building contractors, and food inspectors looking for an authoritative introduction to hygiene regulation, hygienic design, and sanitation. Provides a revised overview of the practices for safe processing Incorporates additional chapters concerning pest control, microbiological environmental sampling, and the economics of food plants This essential second edition is useful for professionals responsible for hygiene in the food industry

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