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Food By Design 2 2nd Edition

Delia B. Rodriguez-Amaya



Food By Design 2 2nd Edition:

Global Food Security and Supply Wayne Martindale, 2014-12-19 With the global population projected to reach 9 billion by the year 2050 the need for nations to secure food supplies for their populations has never been more pressing Finding better supply chain solutions is an essential part of achieving a secure and sustainable diet for a rapidly increasing population We are now in a position through methods including life cycle assessment LCA carbon footprinting and other tools to accurately measure and assess our use or misuse of natural resources including food The impact of new technologies and management systems can therefore improve efficiencies and find new ways to reduce waste Global Food Security and Supply provides robust succinct information for people who want to understand how the global food system works The book demonstrates the specific tools available for understanding how food supply works addresses the challenges facing a secure and safe global food supply and helps readers to appreciate how these challenges might be overcome This book is a concise and accessible text that focuses on recent data and findings from a range of international collaborations and studies The author provides both a snapshot of global food supply and security today and a projection of where these issues may lead us in the future This book will therefore be of particular interest to food policy leaders commercial managers in the food industry and researchers and students seeking a better understanding of a rapidly evolving topic

Applied Food Protein Chemistry Zeynep Ustunol, 2014-12-19 Food proteins are of great interest not only because of their nutritional importance and their functionality in foods but also for their detrimental effects Although proteins from milk meats including fish and poultry eggs cereals legumes and oilseeds have been the traditional sources of protein in the human diet potentially any proteins from a biological source could serve as a food protein The primary role of protein in the diet is to provide the building materials for the synthesis of muscle and other tissues and they play a critical role in many biological processes They are also responsible for food texture color and flavor Today food proteins are extracted modified and incorporated into processed foods to impart specific functional properties They can also have adverse effects in the diet proteins such as walnuts pecans almonds and cashews soybean wheat milk egg crustacean and fish proteins can be powerful allergens for some people Applied Food Protein Chemistry is an applied reference which reviews the properties of food proteins and provides in depth information on important plant and animal proteins consumed around the world The book is grouped into three sections 1 overview of food proteins 2 plant proteins and 3 animal proteins Each chapter discusses world production distribution utilization physicochemical properties and the functional properties of each protein as well as its food applications The authors for each of the chapters are carefully selected experts in the field This book will be a valuable reference tool for those who work on food proteins It will also be an important text on applied food protein chemistry for upper level students and graduate students of food science programs

Food Packaging Gordon L. Robertson, 2005-09-22 A comprehensive and accessible textbook Food Packaging Principles and Practice Second Edition presents an integrated

approach to understanding the principles underlying food packaging and their applications Integrating concepts from chemistry microbiology and engineering it continues in the fine tradition of its bestselling predecessor and has been completely updated to include new updated and expanded content The author divides the book s subject matter into five parts for ease of use The first part addresses the manufacture properties and forms of packaging materials placing emphasis on those properties that influence the quality and shelf life of food The second part then details the various types of deteriorative reactions that foods undergo examines the extrinsic factors controlling their reaction rates and discusses specific factors influencing shelf life and the methodology used to estimate that shelf life Chapters on the aseptic packaging of foods active and intelligent packaging modified atmosphere packaging and microwavable food packaging are explored in the third part while the fourth part describes packaging requirements of the major food groups The final section examines the safety and legislative aspects of food packaging The book also includes over 300 industry abbreviations acronyms and symbols and an expansive index What s New in the Second Edition Includes five new chapters and diagrams that explain recent developments in packaging materials and processes Provides the latest information on new and active packaging technologies Presents new updated and expanded references Adhering to the highly organized format that made the first edition so straightforward and informative this latest edition of Food Packaging Principles and Practice presents students with the most essential and cutting edge information available The author maintains a website with more information

Handbook of Fermented Meat and Poultry Fidel Toldrá,Iciar Astiasaran,Joseph Sebranek,Regine Talon,2014-12-31 Fermented meat products have been consumed for centuries in many different parts of the world and constitute one of the most important groups of food Bacterial cultures are used in their manufacture to preserve the meat and confer particular textures and sensory attributes Examples of fermented meats include salami chorizo pepperoni and saucisson This fully revised and expanded reference book on meat fermentation presents all the principle fermented meat products and the processing technologies currently used in their manufacture The 54 chapters of this substantial book are grouped into the following sections Meat fermentation worldwide overview production and principles Raw materials Microbiology and starter cultures for meat fermentation Sensory attributes Product categories general considerations Semidry fermented sausages Dry fermented sausages Other fermented meats and poultry Ripened meat products Biological and chemical safety of fermented meat products Processing sanitation and quality assurance There are five new chapters in the second edition that address the following topics Smoking and new smoke flavourings Probiotics Methodologies for the study of the microbial ecology in fermented sausages Low sodium in meat products and Asian sausages Handbook of Fermented Meat and Poultry Second Edition provides readers with a full overview of meat fermentation the role of microorganisms naturally present and or added as starter cultures safety aspects and an account of the main chemical biochemical physical and microbiological changes that occur in processing and how they affect final quality Finally readers will find the main types of worldwide

fermented meat products typically produced in different areas with the description of their main characteristics

Fundamentals of Food Biotechnology Byong H. Lee, 2014-12-01 Fundamentals of Food Biotechnology Food biotechnology is the application of modern biotechnological techniques to the manufacture and processing of food for example through fermentation of food which is the oldest biotechnological process and food additives as well as plant and animal cell cultures New developments in fermentation and enzyme technological processes molecular thermodynamics genetic engineering protein engineering metabolic engineering bioengineering and processes involving monoclonal antibodies nanobiotechnology and quorum sensing have introduced exciting new dimensions to food biotechnology a burgeoning field that transcends many scientific disciplines Fundamentals of Food Biotechnology 2nd edition is based on the author's 25 years of experience in teaching on a food biotechnology course at McGill University in Canada The book will appeal to professional food scientists as well as graduate and advanced undergraduate students by addressing the latest exciting food biotechnology research in areas such as genetically modified foods GMOs bioenergy bioplastics functional foods nutraceuticals nanobiotechnology quorum sensing and quenching In addition cloning techniques for bacterial and yeast enzymes are included in a New Trends and Tools section and selected references questions and answers appear at the end of each chapter This new edition has been comprehensively rewritten and restructured to reflect the new technologies products and trends that have emerged since the original book Many new aspects highlight the short and longer term commercial potential of food biotechnology Food Biochemistry and Food Processing 2nd Edition Edited by Benjamin K Simpson Leo M L Nollet Fidel Toldra et al ISBN 978 0 8138 0874 1 Food Processing Principles and Applications 2nd Edition Edited by Stephanie Clark Editor Stephanie Jung Buddhi Lamsal ISBN 978 0 470 67114 6 **Nutraceutical and Functional Food Processing Technology** Joyce I. Boye, 2015-02-04 For several years the food industry has been interested in identifying components in foods which have health benefits to be used in the development of functional food and nutraceutical products Examples of these ingredients include fibre phytosterols peptides proteins isoflavones saponins phytic acid probiotics prebiotics and functional enzymes Although much progress has been made in the identification extraction and characterisation of these ingredients there remains a need for ready and near market platform technologies for processing these ingredients into marketable value added functional food and nutraceutical products This book looks at how these ingredients can be effectively incorporated into food systems for market and provides practical guidelines on how challenges in specific food sectors such as health claims and marketing can be addressed during processing Nutraceutical and Functional Food Processing Technology is a comprehensive overview of current and emerging trends in the formulation and manufacture of nutraceutical and functional food products It highlights the distinctions between foods falling into the nutraceutical and functional food categories Topics include sustainable and environmentally friendly approaches to the production of health foods guidelines and regulations and methods for assessing safety and quality of nutraceutical and functional food products Specific applications of nutraceuticals

in emulsion and salad dressing food products beverages and soft drinks baked goods cereals and extruded products fermented food products are covered as are novel food proteins and peptides and methods for encapsulated nutraceutical ingredients and packaging The impact of processing on the bioactivity of nutraceutical ingredients allergen management and the processing of allergen free foods health claims and nutraceutical food product commercialization are also discussed Nutraceutical and Functional Food Processing Technology is a comprehensive source of practical approaches that can be used to innovate in the nutraceutical and health food sectors Fully up to date and relevant across various food sectors the book will benefit both academia and industry personnel working in the health food and food processing sectors

Handbook of Mineral Elements in Food Miguel de la Guardia, Salvador Garrigues, 2015-04-20 Mineral elements are found in foods and drink of all different types from drinking water through to mother's milk The search for mineral elements has shown that many trace and ultratrace level elements presented in food are required for a healthy life By identifying and analysing these elements it is possible to evaluate them for their specific health giving properties and conversely to isolate their less desirable properties with a view to reducing or removing them altogether from some foods The analysis of mineral elements requires a number of different techniques some methods may be suitable for one food type yet completely unsuited to another The Handbook of Mineral Elements in Food is the first book to bring together the analytical techniques the regulatory and legislative framework and the widest possible range of food types into one comprehensive handbook for food scientists and technologists Much of the book is based on the author's own data most of which is previously unpublished making the Handbook of Mineral Elements in Food a vital and up to the minute reference for food scientists in industry and academia alike Analytical chemists nutritionists and food policy makers will also find it an invaluable resource Showcasing contributions from international researchers and constituting a major resource for our future understanding of the topic the Handbook of Mineral Elements in Food is an essential reference and should be found wherever food science and technology are researched and taught

The Food Industry Innovation School Helmut Traitler, 2015-04-13 Innovation and new product development are increasingly perceived as drivers of profits in the food industry Companies are dedicating a large amount of resources to these areas and it is crucial that individuals understand how to be part of this new strategy Food Industry Innovation School focuses on key skills needed to drive new ideas from initial concepts through to successful products on the shelf The author argues that any individual can learn how to lead innovation within complex organizations utilizing companies commercial and financial resources The book focuses on the impact of single individuals on company successes Case studies from the marketplace provide valuable examples of accomplishments and failures Product development involves a plethora of activities such as R D innovation engineering packaging and design manufacturing logistics and supply chain management as well as marketing sales and finance and the book addresses all these crucial functions undertaken by food companies and manufacturers of other packaged consumer goods The learning principles and

examples based on the author's personal experience are valid in many fast moving consumer goods organizations and so the principles, best practices and solutions offered in the 12 chapters are relevant to a wide audience in the food industry and beyond including those working in household products, retail, the automotive industry, computers and IT, furniture and even media and publishing. Read more <http://www.innovationschool.co>

Flavour Elisabeth Guichard, Christian Salles, Martine Morzel, Anne-Marie Le Bon, 2016-10-26 This book will cover all aspects of flavour perception including aroma, taste and the role of the trigeminal nerve from the general composition of food to the perception at the peripheral receptor and central level. This book will answer to a growing need for multidisciplinary approaches to better understand the mechanisms involved in flavour perception. The book presents the bases of anatomy of sensory perception. It will provide the requisite basic knowledge on the molecules responsible for flavour perception on their release from the food matrix during the eating process in order to reach the chemosensory receptors and on their retention and release from and transformation by bodily fluids of the oral and nasal cavities. It will also bring current knowledge on the multimodal interactions. This book will also cover the recent evolution in flavour science: characterisation of molecules, interaction with food matrix and more recently, physico-chemical and physiological events during oral processing increasingly considered.

Anti-Ageing Nutrients Deliminda Neves, 2015-04-22 Ageing is a complex time related biological phenomenon that is genetically determined and environmentally modulated. According to even the most pessimistic projections, average lifespan is expected to increase around the world during the next 20 years, significantly raising the number of aged individuals. But increasing life expectancy presents new problems and industrialized countries are facing a pronounced increase in lifestyle diseases which constitute barriers to healthy ageing. **Anti Ageing Nutrients: Evidence based Prevention of Age Associated Diseases** is written by a multidisciplinary group of researchers all interested in the nutritional modulation of ageing mechanisms. Structured in three parts: Part 1 looks at the cellular modifications that underlie senescence of cells and ageing of the organisms, the effects of energy restriction on cellular and molecular mechanisms and in the whole organism and the epigenetic modifications associated with ageing. Part 2 includes chapters which discuss the nutritional modulation of age associated pathologies and the functional decline of organs with a focus on those primarily affected by chronological ageing. Part 3 summarises the knowledge presented in the previous chapters and considers the best diet pattern for the aged individuals. The book reflects the most recent advances in anti ageing nutrition and will be a valuable resource for professionals, educators and students in the health, nutritional and food sciences.

Food Safety Management Veslemøy Andersen, Huub L. M. Lelieveld, Yasmine Motarjemi, 2023-03-28 **Food Safety Management: A Practical Guide for the Food Industry** Second Edition continues to present a comprehensive, integrated and practical approach to the management of food safety throughout the production chain. While many books address specific aspects of food safety, no other book guides you through the various risks associated with each sector of the production process or alerts you to the measures needed to mitigate those risks. This new edition provides

practical examples of incidents and their root causes highlighting pitfalls in food safety management and providing key insights into different means for avoiding them Each section addresses its subject in terms of relevance and application to food safety and where applicable spoilage The book covers all types of risks e g microbial chemical physical associated with each step of the food chain making it an ideal resource Addresses risks and controls at various stages of the food supply chain based on food type including a generic HACCP study and new information on FSMA Covers the latest emerging technologies for ensuring food safety Includes observations on what works and what doesn't on issues in food safety management Provides practical guidelines for the implementation of elements of the food safety assurance system Explains the role of different stakeholders of the food supply

Biofilms in the Dairy Industry Koon Hoong Teh, Steve Flint, John Brooks, Geoff Knight, 2015-08-31 In recent years the formation and impacts of biofilms on dairy manufacturing have been studied extensively from the effects of microbial enzymes produced during transportation of raw milk to the mechanisms of biofilm formation by thermophilic spore forming bacteria The dairy industry now has a better understanding of biofilms and of approaches that may be adopted to reduce the impacts that biofilms have on manufacturing efficiencies and the quality of dairy products Biofilms in the Dairy Industry provides a comprehensive overview of biofilm related issues facing the dairy sector The book is a cornerstone for a better understanding of the current science and of ways to reduce the occurrence of biofilms associated with dairy manufacturing The introductory section covers the definition and basic concepts of biofilm formation and development and provides an overview of problems caused by the occurrence of biofilms along the dairy manufacturing chain The second section of the book focuses on specific biofilm related issues including the quality of raw milk influenced by biofilms biofilm formation by thermophilic streptococci and thermophilic spore forming bacteria in dairy manufacturing plants the presence of pathogens in biofilms and biofilms associated with dairy waste effluent The final section of the book looks at the application of modelling approaches to control biofilms Potential solutions for reducing contamination throughout the dairy manufacturing chain are also presented Essential to professionals in the global dairy sector Biofilms in the Dairy Industry will be of great interest to anyone in the food and beverage academic and government sectors This text is specifically targeted at dairy professionals who aim to improve the quality and consistency of dairy products and improve the efficiency of dairy product manufacture through optimizing the use of dairy manufacturing plant and reducing operating costs

How Flavor Works Nak-Eon Choi, Jung H. Han, 2015-02-23 Taste is the number one driving force in the decision to purchase a food product and food consumption is the most critical function for living organisms to obtain the energy and resources essential to their vitality Flavor and aroma are therefore universally important concepts intrinsic to human well being and pleasure and of huge significance for the multi trillion dollar global food business How Flavor Works the Science of Taste and Aroma offers a fascinating and accessible primer on the concepts of flavor science for all who have an interest in food and related topics Professionals and students of food science and technology who do not

already specialize in flavor science will find it a valuable reference on a topic crucial to how consumers perceive and enjoy food products. In this regard it will also be of interest to product developers, marketers and food processors. Other readers with a professional eg. culinary and food service or personal interest in food will also find the book interesting as it provides a user friendly account of the mechanisms of flavor and aroma which will provide new insights into their craft.

Genetic Modification and Food Quality Robert Blair, Joe M. Regenstein, 2015-06-29 The development of recombinant DNA methods has changed the face of the food industry over the last 50 years. Crops which have been genetically modified are being cultivated in more and more countries and this process is likely to accelerate as desirable traits are identified and transferred to appropriate organisms and they are cleared by the regulatory authorities. However the technique has its critics who claim that modification of the genome of the plant or animal in this way may pose unknown and unacceptable risks to the human consumer. *Genetic Modification and Food Quality: A Down to Earth Analysis* is the first comprehensive text on how GM production methods influence the quality of foods and feeds based on a complete and unbiased assessment of the scientific findings. It presents a balanced analysis of the benefits and drawbacks of gene modified food sources in the human diet. Chapters approach the topic with regard to different food types such as cereal grains, oilseed crops, vegetables, fish and animal products. Assessing the nutritive value as well as the health and safety of GMO foods, this book is a reference for anyone working in the food production industry and will also be of an interest to NGOs, trade associations and consumers who are looking for an objective, balanced study of this contentious issue.

Emerging Dairy Processing Technologies Nivedita Datta, Peggy M. Tomasula, 2015-04-27 Fluid milk processing is energy intensive with high financial and energy costs found all along the production line and supply chain. Worldwide the dairy industry has set a goal of reducing GHG emissions and other environmental impacts associated with milk processing. Although the major GHG emissions associated with milk production occur on the farm, most energy usage associated with milk processing occurs at the milk processing plant and afterwards during refrigerated storage, a key requirement for the transportation, retail and consumption of most milk products. Sustainable alternatives and designs for the dairy processing plants of the future are now being actively sought by the global dairy industry as it seeks to improve efficiency, reduce costs and comply with its corporate social responsibilities. *Emerging Dairy Processing Technologies: Opportunities for the Dairy Industry* presents the state of the art research and technologies that have been proposed as sustainable replacements for high temperature short time (HTST) and ultra high temperature (UHT) pasteurization with potentially lower energy usage and greenhouse gas emissions. These technologies include pulsed electric fields, high hydrostatic pressure, high pressure homogenization, ohmic and microwave heating, microfiltration, pulsed light, UV light processing and carbon dioxide processing. The use of bacteriocins which have the potential to improve the efficiency of the processing technologies is discussed and information on organic and pasture milk which consumers perceive as sustainable alternatives to conventional milk is also provided. This book brings together all the

available information on alternative milk processing techniques and their impact on the physical and functional properties of milk written by researchers who have developed a body of work in each of the technologies This book is aimed at dairy scientists and technologists who may be working in dairy companies or academia It will also be highly relevant to food processing experts working with dairy ingredients as well as university departments research centres and graduate students

Biofilms in the Food Environment Anthony L. Pometto III, Ali Demirci, 2015-08-24 In nature microorganisms are generally found attached to surfaces as biofilms such as dust insects plants animals and rocks rather than suspended in solution Once a biofilm is developed other microorganisms are free to attach and benefit from this microbial community The food industry which has a rich supply of nutrients solid surfaces and raw materials constantly entering and moving through the facility is an ideal environment for biofilm development which can potentially protect food pathogens from sanitizers and result in the spread of foodborne illness Biofilms in the Food Environment is designed to provide researchers in academia federal research labs and industry with an understanding of the impact control and hurdles of biofilms in the food environment Key to biofilm control is an understanding of its development The goal of this 2nd edition is to expand and complement the topics presented in the original book Readers will find The first comprehensive review of biofilm development by *Campylobacter jejuni* An up date on the resistance of *Listeria monocytogenes* to sanitizing agents which continues to be a major concern to the food industry An account of biofilms associated with various food groups such as dairy meat vegetables and fruit is of global concern A description of two novel methods to control biofilms in the food environment bio nanoparticle technology and bacteriophage Biofilms are not always a problem sometimes they even desirable In the human gut they are essential to our survival and provide access to some key nutrients from the food we consume The authors provide up date information on the use of biofilms for the production of value added products via microbial fermentations Biofilms cannot be ignored when addressing a foodborne outbreak All the authors for each chapter are experts in their field of research The Editors hope is that this second edition will provide the bases and understanding for much needed future research in the critical area of Biofilm in Food Environment

Innovative Technologies in Beverage Processing Ingrid Aguilo-Aguayo, Lucia Plaza, 2017-05-22 An in depth look at new and emerging technologies for non alcoholic beverage manufacturing The non alcoholic beverage market is the fastest growing segment of the functional food industry worldwide Consistent with beverage consumption trends generally the demand among consumers of these products is for high nutrient drinks made from natural healthy ingredients free of synthetic preservatives and artificial flavor and color enhancers Such drinks require specialized knowledge of exotic ingredients novel processing techniques and various functional ingredients The latest addition to the critically acclaimed IFST Advances in Food Science series this book brings together edited contributions from internationally recognized experts in their fields who offer insights and analysis of the latest developments in non alcoholic beverage manufacture Topics covered include juices made from pome fruits citrus fruits

prunus fruits vegetables exotic fruits berries juice blends and non alcoholic beverages including grain based beverages soups and functional beverages Waste and by products generated in juice and non alcoholic beverage sector are also addressed Offers fresh insight and analysis of the latest developments in non alcoholic beverage manufacture from leading international experts Covers all product segments of the non alcoholic beverage market including juices vegetable blends grain based drinks and alternative beverages Details novel thermal and non thermal technologies that ensure high quality nutrient retention while extending product shelf life Written with the full support of The Institute of Food Science and Technology IFST the leading qualifying body for food professionals in Europe Innovative Technologies in Beverage Processing is a valuable reference working resource for food scientists and engineers working in the non alcoholic beverage industry as well as academic researchers in industrial food processing and nutrition

Nanotechnology and Functional Foods Cristina Sabliov, Hongda Chen, Rickey Yada, 2015-04-21 The continued advancement in the sciences of functional foods and nutraceuticals has clearly established a strong correlation between consumption of bioactives and improved human health and performance However the efficacy and bioavailability of these bioactive ingredients e g omega 3 oils carotenoid antioxidants vitamins and probiotic bacteria in foods often remains a challenge due to their instability in food products and gastrointestinal tract as well as their limited bioavailability In some cases these bioactive ingredients may impart an undesirable organoleptic characteristic to the final product which hinders acceptance by consumers In addressing these challenges development of effective delivery systems is critical to meet the consumer needs for effective bioactives The scientific knowledge behind developing effective delivery of bioactive components into modern and wide ranging food products will be essential to reap their health promoting benefits and to support the sustained growth of the functional foods market Nanotechnology and Functional Foods Effective Delivery of Bioactive Ingredients explores the current data on all aspects of nanoscale packing carrying and delivery mechanisms of bioactives ingredients to functional foods The book presents various delivery systems including nano emulsions solid lipid nanoparticles and polymeric nano particles their properties and interactions with other food components and fate in the human body Later chapters emphasize the importance of consumers attitude towards nano delivery for the success of the technology and investigate the challenges faced by regulatory agencies to control risks and harmonize approaches worldwide The wide applicability of bioactive delivery systems with the purpose of improving food quality food safety and human health will make this book a worthy reference for a diverse range of readers in industry research and academia

Food Carotenoids Delia B. Rodriguez-Amaya, 2015-09-01 Carotenoids were first studied as natural pigments then as precursors of vitamin A and then as bioactive compounds against chronic diseases These compounds have been and continue to be the subject of intense research worldwide now with an expanded scope Food Carotenoids Chemistry Biology and Technology gathers all the important information about these major compounds which impact both food quality and human health It integrates in one

volume various aspects of food carotenoids such as Structures and physicochemical properties Biosynthetic pathways and metabolism Analysis and composition of foods Stability and reactions during processing Commercial production as food colorants and precursors of aroma compounds Bioavailability and health benefits Having worked with carotenoids in various aspects for 44 years Delia Rodriguez Amaya is uniquely placed to pass on her wealth of knowledge in this field This book will serve as solid background information for professionals in Food Science Food Technology Nutrition Agriculture Biology Chemistry and Medical Sciences whether in the academe industry governmental and non governmental agencies

Healthier Food: Design and Development of Foods with Improved Functional and Nutritional Properties

Vladimir S. Kurćubić, Nemanja M. Miletić, Slaviša B. Stajić, Marko M. Petković, 2025-08-08 Food reformulation is a modern strategy aimed at developing healthier or functional foods with proven positive effects on human health Minimal food processing using innovative food preservation methods with thermal processing at more moderate temperature regimes allows for maximum preservation of the biological value of foods especially those that are enriched or fortified usually with phytochemicals a combination of processes or in some other way The use of secondary waste products from the food industry has found its place in the monograph due to the topicality of the circular economy and environmental protection as the latest area in the reformulation and creation of sustainable production of healthier foods The most promising innovative solutions in this area are not sufficiently known to the wider scientific professional and consumer public Healthier Food Design and development of foods with improved functional and nutritional properties covers the design of innovative reformulated or enriched animal products meat and milk and products obtained by processing plant raw materials bakery products The chapters provide a clear insight into the challenges in the process of developing new modified products and food technology and hygiene and the science of ingredients that make up the architecture of added value food initiating effective reformulation strategies The book will be a useful reference for food engineers and scientists policy makers and students interested in safe and quality food and the preservation and improvement of health through incorporation of functional components in food

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