

Handbook Of Functional Beverages And Human Health

Gluten-Free Cereal Products and Beverages is the only book to address gluten-free foods and beverages from a food science perspective. It presents the latest work in the development of gluten-free products, including description of the disease, the detection of gluten, and the labeling of gluten-free products as well as exploring the raw materials and ingredients used to produce gluten-free products. Identifying alternatives to the unique properties of gluten has proven a significant challenge for food scientists and for the 1% of the world's population suffering from the immune-mediated enteropathy reaction to the ingestion of gluten and related proteins, commonly known as Celiac Disease. This book includes information on the advances in working with those alternatives to create gluten free products including gluten-free beer, malt and functional drinks. Food scientists developing gluten-free foods and beverages, cereal scientists researching the area, and nutritionists working with celiac patients will find this book particularly valuable. Written by leading experts, presenting the latest developments in gluten-free products Addresses Coeliac Disease from a food science perspective Presents each topic from both a scientific and industrial point of view

Fermented foods have been an important part of the human diet in many cultures for many centuries. Modern research, especially on the immune system, is revealing how these foods and their active ingredients impact human health. Handbook of Fermented Functional Foods presents the latest data on fermented food products, their production processes, an

As consumers look to natural foods to promote health and well-being, their focus has been on foods with recognized health properties. Natural health products with rich antioxidant and high free radical scavenging activity such as Asian berries currently draw the interest of scientific researchers, whose goal is to evaluate Asian berries' nutritional and health-promoting properties. Collected in one source, Asian Berries: Health Benefits covers a wide array of different Asian berries, their properties, potential health benefits, and possible uses. Asian berries are well-known traditional nutritional foods and herbal medicinals as well as valuable nourishing tonic, which has been used for thousands of years in Asian countries. They are traditionally employed as herbal medicinals from ancient times. Recently, Asian berries widely marketed as health foods have become increasingly popular in the Western world because of their health-promoting properties. This book explores a wide array of possibilities and benefits that come from Asian berries. Key Features: Defines chemical, biochemical properties, bioactive components and health benefits of Asian berries Details postharvest storage technology and processing technology development Explains utilization of Asian berries by-products Discusses Asian berries functional foods as well as food safety issues Complete with 18 chapters written by experts in their field, Asian Berries: Health Benefits serves as an excellent reference for anyone interested in the science and technology of bioactive components from Asian berries as health-promoting foods.

This handbook is intended to be a comprehensive reference for the various chemical aspects of foods and food products. Apart from the traditional knowledge, this book covers the most recent research and development of food chemistry in the areas of functional foods and nutraceuticals, organic and genetically modified foods, nonthermal food processing as well as nanotechnology. This handbook contains both the basic and advanced chemistry both for food research and its practical applications in various food related industries and businesses. This book is appropriate for undergraduates and postgraduates in the academics and professionals from the various disciplines and industries who are interested in applying knowledge of food chemistry in their respective fields.

Download Ebook Handbook Of Functional Beverages And Human Health

The Handbook of Food Products Manufacturing is a definitive master reference, providing an overview of food manufacturing in general, and then covering the processing and manufacturing of more than 100 of the most common food products. With editors and contributors from 24 countries in North America, Europe, and Asia, this guide provides international expertise and a truly global perspective on food manufacturing.

Consumer demand is creating rapid growth in the functional foods market - a market soon to reach \$20 billion worldwide. As a result, the food industry has stepped up the development of functional lipids. These lipids impart health benefits when consumed and also impact food product functionalities. While many books have touched on the correlation b

Sports and Energy Drinks, Volume 10 in The Science of Beverages series, is the first single-volume resource to focus on the science behind these beverages-for-purpose products. As consumers seek ways to effectively replenish key nutrients after strenuous activity—while also balancing calories and vitamin intake—sports and energy drinks is one of the fastest growing markets in the industry. From protein to fruit, athlete to adolescent consumption, this book explores the key issues and challenges in developing products that meet consumer demand in a safe-and-effective manner. This series takes a multidisciplinary approach to help research and development professionals understand the scientific complexities of these unique beverages. As demand for sports and energy drinks is growing and with a more competitive market, this timely and useful resource will equip industry professionals with the tools they need to create new and innovative health-promoting products. Presents new findings on the health effects of sports and energy drinks Provides research analysis of existing products to promote new product innovation Includes information on trace minerals to promote safety and quality

Packed with case studies and problem calculations, Handbook of Food Processing: Food Safety, Quality, and Manufacturing Processes presents the information necessary to design food processing operations and describes the equipment needed to carry them out in detail. It covers the most common and new food manufacturing processes while addressing rele

Fermented food can be produced with inexpensive ingredients and simple techniques and makes a significant contribution to the human diet, especially in rural households and village communities worldwide. Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to commercialization and heightened interest among scientists and food processors. Handbook of Plant-Based Fermented Food and Beverage Technology, Second Edition is an up-to-date reference exploring the history, microorganisms, quality assurance, and manufacture of fermented food products derived from plant sources. The book begins by describing fermented food flavors, manufacturing, and biopreservation. It then supplies a detailed exploration of a range of topics, including: Soy beverages and sauce, soymilk, and tofu Fruits and fruit products, including wine, capers, apple cider and juice, mangos, olive fruit, and noni fruits Vegetables and vegetable products, including red beet juice, eggplant, olives, pickles, sauerkraut, and jalapeño peppers Cereals and cereal products, including fermented bread, sourdough bread, rice noodles, boza, Chinese steamed buns, whiskey, and beer Specialty products such as balsamic vinegar, palm wine, cachaça, brick tea, shalgam, coconut milk and oil, coffee, and probiotic nondairy beverages Ingredients such as proteolytic bacteria, enzymes, and probiotics Fermented food products play a critical role in cultural identity, local economy, and gastronomical delight. With contributions from over 60 experts from more than 20 countries, the book is an essential reference distilling the most critical information on this food sector.

It has been ten years since its first edition, making the Handbook of Brewing, Second Edition the must have resource on the science and technology of beer production. It recounts how during this time, the industry has transformed both commercially and technically and how

many companies have been subsumed into large multinationals while at the other extreme, microbreweries have flourished in many parts of the world. It also explains how massive improvements in computer power and automation have modernized the brewhouse while developments in biotechnology have steadily improved brewing efficiency, beer quality, and shelf life. In addition to these topics, the book, written by an international team of experts recognized for their contributions to brewing science and technology, also covers traditional beer styles as well as more obscure beverages such as chocolate- or coffee-flavored beers. It includes the many factors to be considered in setting up and operating a microbrewery as well as the range of novel beers and beer-related products currently being considered by the brewing industry. It also describes new avenues that challenge the brewer's art of manufacturing a quality beverage from barley-based raw materials. Thorough and accessible, the Handbook of Brewing, Second Edition provides the essential information for those who are involved or interested in the brewing industry.

With contributions from a panel of leading international experts, the Handbook of Nutraceuticals and Functional Foods, Second Edition, provides a collection of the most current topics in nutraceuticals and functional foods. This edition features new and revised chapters, including the topics of vitamin E, nutritional supplements and inflammation, whey protein, cereals, beverages, and fruits.

Scientific advances in this field have not only given us a better understanding of what is an optimal diet, but has allowed food and nutraceutical companies to market products with specific health claims, fortify existing foods, and even create new foods designed for a particular health benefit. Handbook of Nutraceuticals and Functional Foods, Second Edition, compiles the latest data from authoritative, scientific sources. It provides hard evidence on the prophylactic and medicinal properties of many natural foods. This handbook reviews more than 200 nutraceutical compounds. Each chapter includes the chemical properties, biochemical activity, dietary sources, and evidentiary findings for each compound. New topics include the use of exopolysaccharides from lactic acid bacteria, protein as a functional ingredient for weight loss, and nutraceuticals to be used in the adjunctive treatment of depression. Two new chapters discuss recent evidence on oxidative stress and the antioxidant requirements of athletes as well as the use of nutraceuticals for inflammation. The scientific investigation of nutrition and lifestyle changes on the pain and debilitation of osteoarthritis is the subject of another new article. The book concludes with a look at future marketing opportunities paying particular attention to the alleviation of obesity. With contributions from a panel of leading international experts, Handbook of Nutraceuticals and Functional Foods, Second Edition, provides instant access to comprehensive, cutting edge data, making it possible for food scientists, nutritionists, and researchers to utilize this ever growing wealth of information.

Value-Added Ingredients and Enrichment of Beverages, Volume Fourteen in The Science of Beverages series, takes a multidisciplinary approach in addressing what consumers demand in natural beverages. This in-depth reference covers both natural and unnatural ingredients and explains their impact on consumer health and nutrition. Sweeteners, vitamins, oils and other natural ingredients to improve beverages are included. The book addresses some of the most common enrichments used in the industry, including those with biomedical and nutritional applications. This volume will be useful to anyone in the beverages industry who needs a better understanding of advances in the industry. Discusses health-related benefits and risks, along with the potential harmful effects of additives and preservatives Provides research examples of health promoting ingredients in beverages to further research and development Presents key steps in designing formulations of enriched beverages, analysis, product development, shelf life, cost-benefit ratio and compliance with WHO regulations

Handbook of Functional Beverages and Human Health provides potential applications and new developments in functional beverages, nutraceuticals, and health foods. In addition to serving as a reference manual, it summarizes the current state of knowledge in key research

areas and contains novel ideas for future research and development. Additionally, Over the past decade, new applications of genetic engineering in the fermentation of food products have received a great deal of coverage in scientific literature. While many books focus solely on recent developments, this reference book highlights these developments and provides detailed background and manufacturing information. Co-Edited by Fidel

Biotechnological Progress and Beverage Consumption, Volume 19 in the Science of Beverages series, presents a scientific resource that discusses current and emerging advancements in technologies and novel applications to help researchers understand and apply the latest techniques to improve beverages. This reliable reference explores how beverages have been improved through biotechnology and provides technical information to improve professional development in a competitive market. Topics include a broad range of trends where some of the most advancements have been made, including improvements in bioactive concentration, probiotics, green technologies in fermentation, and in clarification processes. Provides technical aspects of bioprocesses for a deeper understanding of product creation Presents modeling and simulation examples for quality control and safety of fermented beverages Includes research methods and analysis to improve product development including texture and flavor

Health Benefits of Fermented Foods and Beverages discusses the functionality and myriad health benefits of fermented foods and beverages of the world. It examines health-promoting and therapeutic properties, covering the molecular process of fermentation and the resulting benefit to nutritional value and long-term health. Exploring a range of ferments Anthocyanins, polyphenolic compounds abundant in certain foods, are responsible for the orange-red to blue-violet hues evident in many fruits, vegetables, cereal grains, and flowers. Interest in these pigments has intensified due to their potential health-promoting properties as dietary antioxidants, as well as their use as natural dyes in a variety

Nuts and dried fruits are part of our daily diet. They are consumed whole or as ingredients of many food products such as muffins, cereals, chocolates, energy bars, breads, and cookies, among others. Health Benefits of Nuts and Dried Fruits provides a comprehensive overview of the literature on the health benefits of nuts and dried fruits. The book summarizes the current state of knowledge in key research areas and provides ideas for future scientific research and product development. Nuts, a term that comprises tree nuts and peanuts, are highly nutritious, containing health-promoting macronutrients, micronutrients, vitamins, and bioactive phytochemicals; they are one of the edible foods with the highest content in antioxidants. The consumption of nuts is recognized for its health-promoting properties, which ranges from a consistent cholesterol-lowering effect in clinical trials to a robust association with reduced risk of cardiovascular disease and all-cause mortality in prospective studies. In spite of the high energy content of nuts, there is no evidence that their frequent consumption promotes obesity, and they may even help control it. Dried fruits, which serve as important healthful snacks worldwide, are nutritionally equivalent to fresh fruits while providing all of their bioactive components in concentrated form. While the evidence level concerning the health effects of dried fruits lags behind that on nuts, it

suggests that individuals who consume dried fruits regularly have a lower risk of cardiovascular disease, obesity, and other non-communicable diseases. Main features of the book concerning nuts and dried fruits:

- Provides detailed information on health effects
- Highlights current regulation and health claims
- Provides updated dietary recommendations
- Describes nutrient absorption and metabolism
- Discusses mechanisms implicated in the health effects

Although this book is intended primarily as a reference, by comprehensively reviewing the current state of knowledge it can guide future research on the topic. Among others, food scientists, biochemists, nutritionists, health professionals, decision makers, and regulatory agencies can draw much benefit from its contents. Hopefully, it will help in public health strategies to promote healthy aging and improve population wellbeing.

Milk-Based Beverages, Volume 9 in The Science of Beverages series, presents current status, developments, and technologies for researchers and developers to meet consumer demand and understand consumer trends toward healthy drinks. This resource takes a multidisciplinary approach to address issues in safety and quality control, while also discussing the nutritional and functional information that professionals in the beverage industry need. The book presents a framework for researchers, product developers, engineers, and regulators in the beverages industry for understanding new research developments in milk-based products to meet industry needs in producing competitive products. Covers the most recent advances in various milk-based products Includes a solid review of safety and hygiene for the development of new products Presents engineering techniques and applications using novel technologies

As with the beginning of the twentieth century, when food safety standards and the therapeutic benefits of certain foods and supplements first caught the public's attention, the dawn of the twenty-first century finds a great social priority placed on the science of food safety. Ronald Schmidt and Gary Rodrick's Food Safety Handbook provides a single, comprehensive reference on all major food safety issues. This expansive volume covers current United States and international regulatory information, food safety in biotechnology, myriad food hazards, food safety surveillance, and risk prevention. Approaching food safety from retail, commercial, and institutional angles, this authoritative resource analyzes every step of the food production process, from processing and packaging to handling and distribution. The Handbook categorizes and defines real and perceived safety issues surrounding food, providing scientifically non-biased perspectives on issues for professional and general readers. Each part is divided into chapters, which are then organized into the following structure: Introduction and Definition of Issues; Background and Historical Significance; Scientific Basis and Implications; Regulatory, Industrial, and International Implications; and Current and Future Implications. Topics covered include: Risk assessment and epidemiology Biological, chemical, and physical hazards Control systems and intervention strategies for reducing risk or preventing food hazards, such as Hazard Analysis Critical Control Point

(HACCP) Diet, health, and safety issues, with emphasis on food fortification, dietary supplements, and functional foods Worldwide food safety issues, including European Union perspectives on genetic modification Food and beverage processors, manufacturers, transporters, and government regulators will find the Food Safety Handbook to be the premier reference in its field.

A comprehensive two-volume set that describes the science and technology involved in the production and analysis of alcoholic beverages. At the heart of all alcoholic beverages is the process of fermentation, particularly alcoholic fermentation, whereby sugars are converted to ethanol and many other minor products. The Handbook of Alcoholic Beverages tracks the major fermentation process, and the major chemical, physical and technical processes that accompany the production of the world's most familiar alcoholic drinks. Indigenous beverages and small-scale production are also covered to a significant extent. The overall approach is multidisciplinary, reflecting the true nature of the subject. Thus, aspects of biochemistry, biology (including microbiology), chemistry, health science, nutrition, physics and technology are all necessarily involved, but the emphasis is on chemistry in many areas of the book. Emphasis is also on more recent developments and innovations, but there is sufficient background for less experienced readers. The approach is unified, in that although different beverages are dealt with in different chapters, there is extensive cross-referencing and comparison between the subjects of each chapter. Divided into five parts, this comprehensive two-volume work presents: INTRODUCTION, BACKGROUND AND HISTORY: A simple introduction to the history and development of alcohol and some recent trends and developments, FERMENTED BEVERAGES: BEERS, CIDERS, WINES AND RELATED DRINKS: the latest innovations and aspects of the different fermentation processes used in beer, wine, cider, liquor wines, fruit wines, low-alcohol and related beverages. SPIRITS: cover distillation methods and stills used in the production of whisky, cereal- and cane-based spirits, brandy, fruit spirits and liquors ANALYTICAL METHODS: covering the monitoring of processes in the production of alcoholic beverages, as well as sample preparation, chromatographic, spectroscopic, electrochemical, physical, sensory and organoleptic methods of analysis. NUTRITION AND HEALTH ASPECTS RELATING TO ALCOHOLIC BEVERAGES: includes a discussion on nutritional aspects, both macro- and micro-nutrients, of alcoholic beverages, their ingestion, absorption and catabolism, the health consequences of alcohol, and details of the additives and residues within the various beverages and their raw materials. The Bar and Beverage Book explains how to manage the beverage option of a restaurant, bar, hotel, country club—any place that serves beverages to customers. It provides readers with the history of the beverage industry and appreciation of wine, beer, and spirits; information on equipping, staffing, managing, and marketing a bar; and the purchase and mixology of beverages. New topics in this edition include changes to regulations regarding the service of alcohol,

updated sanitation guidelines, updates to labor laws and the employment of staff, and how to make your operation more profitable. New trends in spirits, wine, and beer are also covered.

This handbook compiles information on novel ingredients and functional food products from leading authors in their respective areas of expertise. It provides an evidence-based and authoritative review of the prophylactic properties exerted by food components, foods, and dietary patterns. It includes information on the chemical properties, dietary sources, intakes, efficacy, health effects, and safety of each bioactive compound, functional food, or nutraceutical. This edition contains many new topics, including inflammation relief, exercised-induced immunity, Alzheimer's disease, and dementia.

Nutrients in Beverages, Volume Twelve, in the Science of Beverages series, introduces the role of nutrients in beverages and provides details into the biological effects of beverage ingredients by presenting their nutritional properties and characterization. This scientific reference covers both the current state-of-the-art and future trends in the beverage industry, and is designed as a comprehensive guide to this area of research. Detailed research information is presented to not only help researchers and students understand the nature of the challenges associated with incorporating nutrients, but to also help strengthen the knowledge transfer between research institutions and industry. Includes information on the health impact of various nutrients Discusses nutrients in beverages as a potential delivery system for nutraceuticals Presents research example detection techniques to assist in identifying nutrient types and functionalities This introductory textbook provides a thorough guide to the management of food and beverage outlets, from their day-to-day running through to the wider concerns of the hospitality industry. It explores the broad range of subject areas that encompass the food and beverage market and its five main sectors – fast food and popular catering, hotels and quality restaurants and functional, industrial, and welfare catering. New to this edition are case studies covering the latest industry developments, and coverage of contemporary environmental concerns, such as sourcing, sustainability and responsible farming. It is illustrated in full colour and contains end-of-chapter summaries and revision questions to test your knowledge as you progress. Written by authors with many years of industry practice and teaching experience, this book is the ideal guide to the subject for hospitality students and industry practitioners alike.

Natural Beverages, Volume Thirteen, in the Science of Beverages series, takes a multidisciplinary approach to address the shifting beverage landscape towards the global trend of natural beverages. As global beverage consumption has progressed towards healthier and 'natural' ingredients, researchers and scientists need to understand the latest scientific developments and the proposed health benefits and improved effects. Classical examples are presented as a basis for innovation expansion to help new researchers understand this segment of the industry. This is a great resource

for researchers and scientists in the beverages industry. Describes natural beverage production and its impact on nutritional value Provides overall coverage of hot topics and scientific principles in the beverage industry Explores the pros and cons of natural vs. artificial beverages in product development Covers the production of all commonly consumed 'natural' beverages

Contains new and expanded material on antioxidants in beverages and herbal products, nitric oxide and selenium, and the effect of vitamin C on cardiovascular disease and of lipoic acid on aging, hyperglycemia, and insulin resistance! Offering over 4200 contemporary references-2000 more than the previous edition-the Second Edition of the Handbook of Antioxidants is an up-to-the-minute source for nutritionists and dietitians, cell biologists and biochemists, cardiologists, oncologists, dermatologists, and medical students in these disciplines.

Did you know? It's estimated that fermentation practices have been around since as early as 6000 BC, when wine was first being made in Caucasus and Mesopotamia. Today, there are roughly 5000 varieties of fermented foods and beverages prepared and consumed worldwide, which accounts for between five and forty percent of daily meals.

Fermented Foods a

Handbook of Nutraceuticals and Functional Foods, Second Edition is a thorough revision of an extremely successful professional handbook that is also used in advances and graduate courses. This book offers a snapshot of the most current topics in this important field of nutraceuticals and functional foods. It is an ideal all-in-one reference for food scientists, academic professors, nutritional scientists and pharmaceutical scientists. For this new edition, seven brand new chapters have been added: Vitamin E; Nutritional Supplements and Inflammation; Whey Protein; Personalized Nutrition; Fruits; Beverages; and Cereals. Other chapters have been cut and remaining chapters have been updated and revised.

* Covers the manufacturing and processing of foods in: Bakery, Beverages, Cereals, Cheese, Confectionary, Fats, Fruits, and Functional Foods * Includes coverage of manufacturing principles * Presents details of commercial processing for each commodity including (where appropriate) a general introduction, ingredients, technologies, types and evaluation of industrial products, special problems, types and evaluation of consumer products, and processing and product trends * Includes truly international coverage with editors and contributors from all over the world.

Fermented Beverages, Volume Five, the latest release in The Science of Beverages series, examines emerging trends and applications of different fermented beverages, including alcoholic and non-alcoholic drinks. The book discusses processing techniques and microbiological methods for each classification, their potential health benefits, and overall functional properties. The book provides an excellent resource to broaden the reader's understanding of different

fermented beverages. It is ideal for research and development professionals who are working in the area of new products. Presents research examples to help solve problems and optimize production Provides recent technologies used for quality analysis Includes industry formulations for different beverages to increase productivity and innovation Includes common industry formulations to foster the creation of new products

Handbook of Indigenous Foods Involving Alkaline Fermentation details the basic approaches of alkaline fermentation, provides a brief history, and offers an overview of the subject. Devoted exclusively to alkaline-fermented foods (AFFs), this text includes contributions from experts from around the globe. It discusses the diversity of indigenous fermented foods involving an alkaline reaction, as well as the taxonomy, ecology, physiology, and genetics of predominant microorganisms occurring in AFFs. Presented in nine chapters, the book explains how microorganisms or enzymes transform raw ingredients into AFFs. It discusses the safety aspects of AFFs, and considers the challenges associated with the technological aspects in modernizing AFFs. It stresses the significance of the microbiological and biochemical processes in the fermentations, as well as the factors that influence the development of the characteristic microbiota, and the biochemical and organoleptic changes induced by them. It also proposes solutions, discusses the value of AFFs and related dominant microorganisms, and assesses the future of AFFs. The authors highlight commonly known foods and beverages of plant and animal origin. They provide insight into the manufacture, chemical and microbiological composition, processing, and compositional and functional modifications taking place as a result of microbial and enzyme effects. The text examines safety, legislation, traditional and industrialized processes, as well as new product development, and opportunities for developing commodities from Africa, Asia, Europe, Latin America, and the Middle East. In addition, it also assesses the value of food processing by-products, biotechnology, and engineering of solid-state processes, modern chemical and biological analytical approaches to safety, and health and consumer perception.

Focuses on how fermentation of food remains an important aspect of food processing Describes how fermentation of food contributes to its preservation Details how fermented food gets its flavor from microbial and enzymatic modifications of food components such as sugars, fats, and proteins Handbook of Indigenous Foods Involving Alkaline Fermentation offers insight into the microbiology and chemistry of the fermentation processes. This book serves graduate students and researchers of food science and technology, nutrition and dietetics, food microbiology, and related areas.

Food Processing for Increased Quality and Consumption, Volume 18 in the Handbook of Food Bioengineering series, offers an updated perspective on the novel technologies utilized in food processing. This resource highlights their impact on health, industry and food bioengineering, also emphasizing the newest aspects of investigated technologies and specific food products through recently developed processing methods. As processed foods are more frequently

consumed, there is increased demand to produce foods that attract people based on individual preferences, such as taste, texture or nutritional value. This book provides advantageous tools that improve food quality, preservation and aesthetics. Examines different frying techniques, dielectric defrosting, high pressure processing, and more Provides techniques to improve the quality and sensory aspects of foods Includes processing techniques for meat, fish, fruit, alcohol, yogurt and whey Outlines techniques for fresh, cured and frozen foods Presents processing methods to improve the nutritional value of foods

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

As consumer demand for traditional carbonated drinks falls, the market for beverages with perceived health-promoting properties is growing rapidly. Formulating a nutritional, nutraceutical or functional beverage with satisfactory sensory quality and shelf-life can be challenging. This important collection reviews the key ingredients, formulation technology and health effects of the major types of functional and speciality beverage. Chapters in part one consider essential ingredients such as stabilizers and sweeteners, and significant aspects of formulation such as fortification technology and methods to extend shelf-life. Dairy-based beverages are the focus of Part two, with chapters covering methods to improve the nutritional and sensory quality and technological functionality of milk, a crucial ingredient in many healthful beverages. Chapters on newer dairy ingredients, such as whey and milk-fat globule membrane complete the section. Part three then reviews advances in the significant plant-based beverage sector, with chapters on popular products such as fruit juices, sports drinks, tea and coffee. Soy proteins are also covered. Chapters on product development and the role of beverages in the diet complete the volume. With its distinguished editor and contributors, Functional and speciality beverage technology is an essential collection for professionals and academics interested in this product sector. Reviews the key ingredients, formulation technology and health effects of the major types of functional and speciality beverages Essential ingredients such as stabilizers and sweeteners, and significant aspects of formulation such as fortification

technology and methods to extend shelf-life are considered. Focuses on methods to improve the nutritional and sensory quality and technological functionality of milk.

Fermented food can be produced with inexpensive ingredients and simple techniques and makes a significant contribution to the human diet, especially in rural households and village communities worldwide. Progress in the biological and microbiological sciences involved in the manufacture of these foods has led to commercialization and heightened interest.

An A to Z Catalog of Innovative Spices and Flavorings Designed to be a practical tool for the many diverse professionals who develop and market foods, the Handbook of Spices, Seasonings, and Flavorings combines technical information about spices—forms, varieties, properties, applications, and quality specifications — with information about trends, spice history, and the culture behind their cuisines. The book codifies the vast technical and culinary knowledge for the many professionals who develop and market foods. While many reference books on spices include alphabetized descriptions, the similarity between this book and others ends there. More than just a list of spices, this book covers each spice's varieties, forms, and the chemical components that typify its flavor and color. The author includes a description of spice properties, both chemical and sensory, and the culinary information that will aid in product development. She also explains how each spice is used around the world, lists the popular global spice blends that contain the spice, describes each spice's folklore and traditional medicine usage, and provides translations of each spice's name in global languages. New to this edition is coverage of spice labeling and a chapter on commercial seasoning formulas. Going beyond the scope of most spice books, this reference describes ingredients found among the world's cuisines that are essential in providing flavors, textures, colors, and nutritional value to foods. It explores how these ingredients are commonly used with spices to create authentic or new flavors. The author has created a complete reference book that includes traditionally popular spices and flavorings as well as those that are emerging in the US to create authentic or fusion products. Designed to help you meet the challenges and demands of today's dynamic marketplace, this book is a complete guide to developing and marketing successful products.

Alcoholic Beverages, Volume Seven in The Science of Beverages series, is a multidisciplinary resource for anyone who needs deeper knowledge on the most recent approaches in beverage development, technology, and engineering, along with their effects on beverage composition, quality, sensory and nutritional features. The book discusses main alcoholic beverages, such as spirits and wines that are thoroughly analyzed in terms of production, sustainability, and future perspectives. It offers examples of the new trends and the most recent technologies and approaches in the industry of alcoholic drinks. Includes a variety of trending ingredients for novel beverage production. Provides different approaches

for the identification of adulterations and contaminants in alcoholic beverages Includes research examples and applications of different products, such as beer, wine, and spirits

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