

The Oxford Companion To Food 2nd Ed

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in the 21st century processing food is no longer a simple or straightforward matter ongoing advances in manufacturing have placed new demands on the design and methodology of food processes a highly interdisciplinary science food process design draws upon the principles of chemical and mechanical engineering microbiology chemistry nutrition and economics and is of central importance to the food industry process design is the core of food engineering and is concerned at its root with taking new concepts in food design and developing them through production and eventual consumption handbook of food process design is a major new 2 volume work aimed at food engineers and the wider food industry comprising 46 original chapters written by a host of leading international food scientists engineers academics and systems specialists the book has been developed to be the most comprehensive guide to food process design ever published starting from first principles the book provides a complete account of food process designs including heating and cooling pasteurization sterilization refrigeration drying crystallization extrusion and separation mechanical operations including mixing agitation size reduction extraction and leaching processes are fully documented novel process designs such as irradiation high pressure processing ultrasound ohmic heating and pulsed uv light are also presented food packaging processes are considered and chapters on food quality safety and commercial imperatives portray the role process design in the broader context of food production and consumption

food nanotechnology is an expanding field this expansion is based on the advent of new technologies for nanostructure characterization visualization and construction nanotechnology research methods for food and bioproducts introduces the reader to a selection of the most widely used techniques in food and bioproducts nanotechnology this book focuses on state of the art equipment and contains a description of the essential tool kit of a nanotechnologist targeted at researchers and product development teams this book serves as a quick reference and a guide in the selection of nanotechnology experimental research tools

this book is the first to bring together essential information on the application of ozone in food processing providing an insight into the current state of the art and reviewing established and emerging applications in food processing preservation and waste

management the chemical and physical properties of ozone are described along with its microbial inactivation mechanisms the various methods of ozone production are compared including their economic and technical aspects several chapters are dedicated to the major food processing applications fruit and vegetables grains meat seafood and food hydrocolloids and the effects on nutritional and quality parameters will be reviewed throughout further chapters examine the role of ozone in water treatment in food waste treatment and in deactivating pesticide residues the international regulatory and legislative picture is addressed as are the health and safety implications of ozone processing and possible future trends

according to an august 2009 report from pricewaterhousecoopers the united states market for functional foods in 2007 was us 27 billion forecasts of growth range from between 8 5 and 20 per year or about four times that of the food industry in general global demand by 2013 is expected to be about 100 billion with this demand for new products comes a demand for product development and supporting literature for that purpose there is a wealth of research and development in this area and great scope for commercialization and this book provides a much needed review of important opportunities for new products written by authors with in depth knowledge of as yet unfulfilled health related needs this book addresses functional food product development from a number of perspectives the process itself health research that may provide opportunities idea creation regulation and processes and ingredients it also features case studies that illustrate real product development and commercialization histories written for food scientists and technologists this book presents practical information for use in functional food product development it is an essential resource for practitioners in functional food companies and food technology centres and is also of interest to researchers and students of food science key features a comprehensive review of the latest opportunities in this commercially important sector of the food industry includes chapters highlighting functional food opportunities for specific health issues such as obesity immunity brain health heart disease and the development of children new technologies of relevance to functional foods are also addressed such as emulsion delivery systems and nanoencapsulation includes chapters on product design and the use of functional ingredients such as antioxidants probiotics and prebiotics as well as functional ingredients from plant and dairy sources specific examples of taking products to market are provided in the form of case studies e g microalgae functional ingredients part of the functional food science and technology book series series editor fereidoon shahidi

many books on sustainability have been written in the last decade most of them dealing with agricultural systems communities and general business practices in contrast handbook of sustainability for the food sciences presents the concept of sustainability as it applies to the food supply chain from farm to fork but with a special emphasis on processing structured in four sections handbook of sustainability for the food sciences first covers the basic concepts of environmental sustainability and provides a detailed account of all the impacts of the food supply chain part two introduces the management principles of sustainability and the tools required to evaluate the environmental impacts of products and services as well as environmental claims and declarations part three looks at ways to alleviate food chain environmental impacts and includes chapters on air emissions water and wastewater solid waste energy packaging and transportation the final part summarizes the concepts presented in the book and looks at the measures that will be required in the near future to guarantee long term sustainability of the food supply chain handbook of sustainability for the food sciences is aimed at food science professionals including food engineers food scientists product developers managers educators and decision makers it will also be of interest to students of food science

included also as a part of some vols of the office s annual statistical register until it ceased publication with vol for 1954 55

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