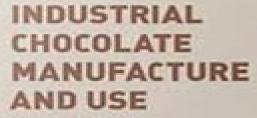
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Industrial Chocolate Manufacture And Use 4th Edition

Steve T. Beckett, Mark S. Fowler, Gregory R. Ziegler

Industrial Chocolate Manufacture And Use 4th Edition:

Industrial Chocolate Manufacture and Use Steve T. Beckett,2011-09-07 Since the third edition of this standard work in 1999 there has been a significant increase in the amount of chocolate manufactured worldwide The fourth edition of Industrial Chocolate Manufacture and Use provides up to date coverage of all major aspects of chocolate manufacture and use from the growing of cocoa beans to the packaging and marketing of the end product Retaining the important and well received key features of the previous edition the fourth edition also contains completely new chapters covering chocolate crumb cold forming technologies intellectual property and nutrition Furthermore taking account of significant changes and trends within the chocolate industry much new information is incorporated particularly within such chapters as those covering the chemistry of flavour development chocolate flow properties chocolate packaging and chocolate marketing This fully revised and expanded new edition is an essential purchase for all those involved in the manufacture and use of chocolate

The Science of Chocolate Stephen T Beckett, 2007-10-31 Chocolate is available to today s consumers in a variety of colours shapes and textures But how many of us as we savour our favourite brand consider the science that has gone into its manufacture This book describes the complete chocolate making process from the growing of the beans to the sale in the shops The Science of Chocolate first describes the history of this intriguing substance Subsequent chapters cover the ingredients and processing techniques enabling the reader to discover not only how confectionery is made but also how basic science plays a vital role with coverage of scientific principles such as latent and specific heat Maillard reactions and enzyme processes There is also discussion of the monitoring and controlling of the production process and the importance and variety of the packaging used today A series of experiments which can be adapted to suit students of almost any age is included to demonstrate the physical chemical or mathematical principles involved Ideal for those studying food science or about to join the confectionery industry this mouth watering title will also be of interest to anyone with a desire to know more about the production of the world's favourite confectionery Beckett's Industrial Chocolate Manufacture and Use Steve T. Beckett, Mark S. Fowler, Gregory R. Ziegler, 2017-02-28 Since the publication of the first edition of Industrial Chocolate Manufacture and Use in 1988 it has become the leading technical book for the industry From the beginning it was recognised that the complexity of the chocolate industry means that no single person can be an expert in every aspect of it For example the academic view of a process such as crystallisation can be very different from that of a tempering machine operator so some topics have more than one chapter to take this into account It is also known that the biggest selling chocolate in say the USA tastes very different from that in the UK so the authors in the book were chosen from a wide variety of countries making the book truly international Each new edition is a mixture of updates rewrites and new topics In this book the new subjects include artisan or craft scale production compound chocolates and sensory This book is an essential purchase for all those involved in the manufacture use and sale of chocolate containing products especially for confectionery and chocolate

scientists engineers and technologists working both in industry and academia The new edition also boasts two new co editors Mark Fowler and Greg Ziegler both of whom have contributed chapters to previous editions of the book Mark Fowler has had a long career at Nestle UK working in Cocoa and Chocolate research and development he is retiring in 2013 Greg Ziegler is a professor in the food science department at Penn State University in the USA Ullmann's Food and Feed, 3 Volume Set Wiley-VCH, 2017-06-19 A compilation of 58 carefully selected topical articles from the Ullmann's Encyclopedia of Industrial Chemistry this three volume handbook provides a wealth of information on economically important basic foodstuffs raw materials additives and processed foods including a section on animal feed It brings together the chemical and physical characteristics production processes and production figures main uses toxicology and safety information in one single resource More than 40 % of the content has been added or updated since publication of the 7th edition of the Encyclopedia in 2011 and is available here in print for the first time The result is a best of Ullmann's bringing the vast knowledge to the desks of professionals in the food and feed industries Science and Technology of Enrobed and Filled Chocolate, **Confectionery and Bakery Products** Geoff Talbot, 2009-06-26 Enrobed and filled confectionery and bakery products such as praline style chocolates confectionery bars and chocolate coated biscuits and ice creams are popular with consumers The coating and filling can negatively affect product quality and shelf life but with the correct product design and manufacturing technology the characteristics of the end product can be much improved This book provides a comprehensive overview of quality issues affecting enrobed and filled products and strategies to enhance product quality Part one reviews the formulation of coatings and fillings with chapters on key topics such as chocolate manufacture confectionery fats compound coatings and fat and sugar based fillings Product design issues such as oil moisture and ethanol migration and chocolate and filling rheology are the focus of Part two Shelf life prediction and testing are also discussed Part three then covers the latest ingredient preparation and manufacturing technology for optimum product quality Chapters examine tempering enrobing chocolate panning production of chocolate shells and deposition technology With its experienced team of authors Science and technology of enrobed and filled chocolate confectionery and bakery products is an essential purchase for professionals in the chocolate confectionery and bakery industries Provides a comprehensive review of quality issues affecting enrobed and filled products Reviews the formulation of coatings and fillings addressing confectionery fats compound coatings and sugar based fillings Focuses on product design issues such as oil moisture and chocolate filling rheology Handbook of Sustainability for the Food Sciences Rubén O. Morawicki, 2012-03-20 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

Decontamination of Fresh and Minimally Processed Produce Vicente M. Gómez-López, 2012-02-13 Attempts to provide safer and higher quality fresh and minimally processed produce have given rise to a wide variety of decontamination methods each of which have been extensively researched in recent years Decontamination of Fresh and Minimally Processed Produce is the first book to provide a systematic view of the different types of decontaminants for fresh and minimally processed produce By describing the different effects microbiological sensory nutritional and toxicological of decontamination treatments a team of internationally respected authors reveals not only the impact of decontaminants on food safety but also on microbial spoilage vegetable physiology sensory quality nutritional and phytochemical content and shelf life Regulatory and toxicological issues are also addressed The book first examines how produce becomes contaminated the surface characteristics of produce related to bacterial attachment biofilm formation and resistance and sublethal damage and its implications for decontamination After reviewing how produce is washed and minimally processed the various decontamination methods are then explored in depth in terms of definition generation devices microbial inactivation mechanisms and effects on food safety Decontaminants covered include chlorine electrolyzed oxidizing water chlorine dioxide ozone hydrogen peroxide peroxyacetic acid essential oils and edible films and coatings Other decontamination methods addressed are biological strategies bacteriophages protective cultures bacteriocins and quorum sensing and physical methods mild heat continuous UV light ionizing radiation and various combinations of these methods through hurdle technology The book concludes with descriptions of post decontamination methods related to storage such as modified atmosphere packaging the cold chain and modeling tools for predicting microbial growth and inactivation The many methods and effects of decontamination are detailed enabling industry professionals to understand the available state of the art methods and select the most suitable approach for their purposes The book serves as a compendium of information for food researchers and students of pre and postharvest technology food microbiology and food technology in general The structure of the book allows easy comparisons among methods and searching information by microorganism produce and quality traits

Nanotechnology Research Methods for Food and Bioproducts Graciela Wild Padua, PhD,Qin Wang, PhD,2012-02-08 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 Manufacturing Yogurt and Fermented Milks Ramesh C. Chandan, Arun Kilara, 2013-01-10 Melding the hands on experience of producing vogurt and fermented milks over four decades with the latest in scientific research in the dairy industry editor Chandan and his associate editors have assembled experts worldwide to writeManufacturing Yogurt and Fermented Milks 2nd Edition This one of a kind resource gives a complete description of the manufacturing stages of yogurt and fermented milks from the receipt of raw materials to the packaging of the products Information is conveniently grouped under four categories Basic background History and consumption trends milk composition characteristics dairy processing principles regulatory requirements laboratory analysis starter cultures packaging and more Yogurt manufacture Fruit preparations and flavoring materials ingredients processing principles manufacture of various yogurt types plant cleaning and sanitizing quality assurance and sensory analysis Manufacture of fermented milks Procedure packaging and other details for more than ten different types of products Health benefits Functional foods probiotics disease prevention and the health attributes of yogurt and fermented milks All manufacturing processes are supported by sound scientific technological and engineering principles **Aguaculture and Behavior** Felicity Huntingford, Malcolm Jobling, Sunil Kadri, 2012-02-13 Modern aguaculture is faced with a number of challenges including public concern about environmental impacts and the welfare of farmed fish A fundamental understanding of fish biology is central to finding ways to meet these challenges and is also essential for maintaining the industry s sustainability Furthermore the behaviour of fish under culture situations has long been ignored despite heavy commercial losses that can result from fish stressed and hence disease prone due to bad husbandry techniques. This important book summarises the current understanding of the behavioural biology of farmed species and illustrates how this can be applied to improve aquaculture practice Informative and engaging Aquaculture Behavior brings the reader up to date with major issues pertaining to aguaculture Everyone from fish farmers to upper level students will find this book a valuable and practical resource Libraries in universities and research establishments where animal behavior aquaculture veterinary and biological sciences are studied and taught should have copies of this work on their shelves Cereals and Pulses Liangli L. Yu, Rong Tsao, Fereidoon Shahidi, 2012-01-30 Cereal and pulse crops are staple foods that provide essential nutrients to many populations of the world Traditionally whole grains were consumed but most current foods are derived from refined fractions of cereal and pulse crops Consumption of processed or refined products may reduce the health benefits of food In wheat based processed foods for example the removed 40% of the grain mainly the bran and the germ of the wheat grain contains

the majority of the health beneficial components These components particularly non essential phytochemicals such as carotenoids polyphenols phytosterols stanols and dietary fibers have been shown to reduce the risk of major chronic diseases of humans such as cancer cardiovascular diseases and Parkinson's disease Such bioactives are therefore good candidates for ingredients of nutraceuticals and functional foods There are many factors that can affect the bioactive content of cereal and pulse based food ingredients including genetics growing and storage conditions post harvest treatments food formulation and processing All of these factors ultimately affect human health and wellness Bioavailability is also important for these compounds for exerting their protective roles Cereals and Pulses Nutraceutical Properties and Health Benefits provides a summary of current research findings related to phytochemical composition and properties of cereal and pulse crops The nutraceutical properties of each major cereal and pulse are discussed Coverage of cereals and pulse crops includes barley oats rice rye corn adlay wheat buckwheat psyllium sorghum millet common beans field peas faba beans chickpea lentil and soybeans Chapters for each crop discuss methods to improve crop utilization nutraceutical components and properties bioactive compositions antioxidant properties beneficial health effects disease prevention activities and areas for future research Also included are two chapters that examine the beneficial health properties of dietary fibers and antioxidants Edited and written by an international team of respected researchers this book is a reference guide for scientists working in food ingredients food product research and development functional foods and nutraceuticals crop breeding and genetics human nutrition post harvest treatment and processing of cereal grains and pulses It will enable them to effect value added food innovation for health promotion and disease risk reduction Encyclopaedia of Brewing ,2013-05-20 Encyclopaedia of Brewing provides a comprehensive description and explanation of all terms which relate to the science and technology of beer allied beverages and the brewing and malting processes The Encyclopaedia's unrivalled coverage is extensive enough to provide an appropriately detailed description of each term under consideration supplemented in many cases with diagrams and photographs Offering an international perspective the book includes descriptions of the terms used in the brewing process from raw materials through to packaging the biochemistry microbiology and genetics which underpin brewing laboratory methods used for the analysis of beer and raw materials quality assurance control systems and standards hygiene and cleaning processes small and large pack packaging engineering of malting brewing packaging and dispense beer flavour chemistry historical context legislation relevant to brewing Encyclopaedia of Brewing is the only book of its kind and is destined to become the essential and authoritative first point of reference for brewing science **Handbook of Plant Food Phytochemicals** Brijesh K. Tiwari, Nigel P. Brunton, Charles Brennan, 2013-04-01 Phytochemicals are plant derived chemicals which may bestow health benefits when consumed whether medicinally or as part of a balanced diet Given that plant foods are a major component of most diets worldwide it is unsurprising that these foods represent the greatest source of phytochemicals for most people Yet it is only relatively recently that due recognition has been given to the importance of

phytochemicals in maintaining our health New evidence for the role of specific plant food phytochemicals in protecting against the onset of diseases such as cancers and heart disease is continually being put forward. The increasing awareness of consumers of the link between diet and health has exponentially increased the number of scientific studies into the biological effects of these substances The Handbook of Plant Food Phytochemicals provides a comprehensive overview of the occurrence significance and factors effecting phytochemicals in plant foods A key of objective of the book is to critically evaluate these aspects Evaluation of the evidence for and against the quantifiable health benefits being imparted as expressed in terms of the reduction in the risk of disease conferred through the consumption of foods that are rich in phytochemicals With world leading editors and contributors the Handbook of Plant Food Phytochemicals is an invaluable cutting edge resource for food scientists nutritionists and plant biochemists It covers the processing techniques aimed at the production of phytochemical rich foods which can have a role in disease prevention making it ideal for both the food industry and those who are researching the health benefits of particular foods Lecturers and advanced students will find it a helpful and readable guide to a constantly expanding subject area Bioactives in Fruit Margot Skinner, Denise Hunter, 2013-09-10 For centuries we have known that fruit is important for health but we are only just beginning to fully understand why Bioactives in Fruit Health Benefits and Functional Foods aims to summarise some of our current knowledge on the bioactive compounds that are associated with the health benefits of specific fruits with a strong emphasis on the validation of health benefits by human intervention trials Reflecting the current interest in food and health the book includes strategies to retain and enhance the bioactives in fruit through breeding growing conditions fruit storage processing into ingredients and production of functional foods To accomplish this task authors with expertise in biology chemistry pharmacology food science nutrition medicine and horticulture have contributed They come from universities government and industry funded research institutes and biotechnology and food companies in Europe the United States Asia and New Zealand to give the book a broad perspective This book describing fruit bioactives their health benefits when consumed as a food and related topics regarding their development into fresh or processed functional foods will be of use to postgraduate students researchers functional food product developers food regulators and anyone who has curiosity about why fruit is good for you The information contained within will provide plant breeders with new targets for the development of value added horticultural products and will also provide nutritionists and dieticians with a useful resource for developing strategies to assist in preventing or slowing disease onset or severity Bioactives in Fruit Health Benefits and Functional Foods is a major resource which will be required reading for anyone working in the fields of health and functional foods Yi-Fang Chu, 2012-01-24 Coffee Emerging Health Benefits and Disease Prevention presents a comprehensive overview of the recent scientific advances in the field The book focuses on the following topics coffee constituents pro and antioxidant properties of coffee constituents bioavailability of coffee constituents health benefits and disease prevention effects of coffee

and potential negative impacts on health Multiple chapters describe coffee s positive impact on health and various diseases type 2 diabetes neurodegenerative diseases Parkinson s and Alzheimer s cancer prostate bladder pancreatic breast ovarian colon and colorectal cardiovascular health and liver health Coffee s positive effects on mood suicide rate and cognitive performance are addressed as are the negative health impacts of coffee on pregnancy insulin sensitivity dehydration gastric irritation anxiety and withdrawal syndrome issues Written by many of the top researchers in the world Coffee Emerging Health Benefits and Disease Prevention is a must have reference for food professionals in academia industry and governmental and regulatory agencies whose work involves coffee The Seafood Industry Linda Ankenman Granata, George J. Flick, Jr., Roy E. Martin, 2012-02-08 The Seafood Industry Species Products Processing and Safety Second Edition is a completely updated and contemporary revision of Flick and Martin's classic publication The Seafood Industry Covering all aspects of the commercial fish and shellfish industries from harvest through consumption the book thoroughly describes the commercial fishery of the western hemisphere The international audience will also find the coverage accessible because although species and regulations may differ the techniques described are similar worldwide. The second edition contains a significant expansion of the material included in the first edition Examples include high pressure processing inclusion of additional major crustacean species of commerce fishery centers and development programs handling methods on fishing vessels and new chapters on Toxins Allergies and Sensitivities Composition and Quality and Risk Management and HACCP and Processing Fin Fish The Seafood Industry Species Products Processing and Safety comprehensive in scope and current with today s issues will prove to be a great asset to any industry professional or seafood technologist working in the field Ozone in Food Processing Colm O'Donnell, Brijesh K. Tiwari, P. J. Cullen, Rip G. Rice, 2012-02-13 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 Wine Tokie Bakker, Ronald J. Clarke, 2011-10-13 Wine Flavour Chemistry brings together a vast wealth of information describing components of wine their underlying chemistry and their possible role in the taste smell and overall perception It includes both table wines and fortified wines such as Sherry Port and the newly added Madeira as well as other special wines This fully revised and updated edition includes new information also on retsina wines ros s organic and reduced alcohol wines and

has been expanded with coverage of the latest research Both EU and non EU countries are referred to making this book a truly global reference for academics and enologists worldwide Wine Flavour Chemistry is essential reading for all those involved in commercial wine making whether in production trade or research The book is of great use and interest to all enologists and to food and beverage scientists and technologists working in commerce and academia Upper level students and teachers on enology courses will need to read this book wherever food and beverage science technology and chemistry are taught libraries should have multiple copies of this important book Food and Beverage Packaging Technology Richard Coles, Mark J. Kirwan, 2011-04-25 Now in a fully revised and updated second edition this volume provides a contemporary overview of food processing packaging technologies It acquaints the reader with food preservation processes shelf life and logistical considerations as well as packaging materials machines and processes necessary for a wide range of packaging presentations The new edition addresses environmental and sustainability concerns and also examines applications of emerging technologies such as RFID and nanotechnology It is directed at packaging technologists those involved in the design and development of packaging users of packaging in food companies and those who specify or purchase packaging Key Features An up to date and comprehensive handbook on the most important sector of packaging technology Links methods of food preservation to the packaging requirements of the common types of food and the available food packages Covers all the key packaging materials glass plastics and paperboard Fully revised second edition now covers sustainability nanotechnology and RFID Intelligent Agrifood Chains and Networks Michael A. Bourlakis, Ilias P. Vlachos, Vasileios Zeimpekis, 2011-02-25 Food has a fundamental position in society ensuring health happiness and political stability Consequently the management of food chains and networks is one of the most important aspects of the modern food industry Yet food is difficult to handle along long supply chains with a limited window for storage and handling time and the risk of spoiling if incorrectly handled or processed These issues can lead to logistical problems that can severely affect product quality and freshness Intelligent Agrifood Chains and Networks offers a timely discussion of the current state of food logistics and indicates the major ICT problems that can occur during production warehousing transportation and retailing Emphasis is given to new technologies and intelligent systems that are able to process time dependent information handle emergencies and support logistics operations in food management In particular the authors show how telematics and RFID can be implemented in the supply chain The book also includes real life case studies in which actual food logistics problems and their solutions are presented demonstrating how systemic and logistics approaches may be combined The book is directed at academics researchers and students seeking the necessary background in terms of the interplay between the food supply chain and ICT Its comprehensive review of current issues in the food supply chain will be of interest to managers and technicians working in the food industry while its technological focus will be invaluable to food scientists and technologists working in research and industry environments

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