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# **FELLOWS' FOOD PROCESSING TECHNOLOGY**

## **PRINCIPLES AND PRACTICE**

**FIFTH EDITION**

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# Food Processing Technology By Pj Fellows

**George D. Saravacos, Athanasios E.  
Kostaropoulos**



## **Food Processing Technology By Pj Fellows :**

Food Processing Technology P.J. Fellows, 2016-10-04 Food Processing Technology Principles and Practice Fourth Edition has been updated and extended to include the many developments that have taken place since the third edition was published. The new edition includes an overview of the component subjects in food science and technology, processing stages, important aspects of food industry management not otherwise considered e.g. financial management, marketing, food laws and food industry regulation, value chains, the global food industry and overarching considerations e.g. environmental issues and sustainability. In addition, there are new chapters on industrial cooking, heat removal, storage and distribution, along with updates on all the remaining chapters. This updated edition consolidates the position of this foundational book as the best single volume introduction to food manufacturing technologies available, remaining as the most adopted standard text for many food science and technology courses. Updated edition completely revised with new developments on all the processing stages and aspects of food industry management not otherwise considered e.g. financial management, marketing, food laws and food industry regulation and more. Introduces a range of processing techniques that are used in food manufacturing. Explains the key principles of each process, including the equipment used and the effects of processing on microorganisms that contaminate foods. Describes post-processing operations, including packaging and distribution logistics. Includes extra textbook elements such as videos and calculations slides, in addition to summaries of key points in each chapter. **Food**

**Processing Technology** P.J. Fellows, 2000-07-11 The first edition of Food Processing Technology was quickly adopted as the standard text by many food science and technology courses. While keeping with the practice of covering the wide range of food processing techniques, this new edition has been substantially expanded to take account of the advances in technology that have taken place since the publication of the first edition. The Second Edition includes new chapters on computer control of processing, novel minimal technologies and Ohmic heating, and an extended chapter on modified atmosphere packaging. It is a comprehensive yet basic text that offers an overview of most unit operations while at the same time providing details of the processing equipment, operating conditions and the effects of processing on the biochemistry of foods. The book is divided into five parts in which unit operations are grouped according to the nature of the heat transfer that takes place. Each chapter describes the formulae required for calculation of processing parameters, sample problems and the effects on sensory characteristics and nutritional properties of selected foods. By combining food processing theory and calculations with descriptions of commercial practice and results of scientific studies, Food Processing Technology Principles and Practice Second Edition helps readers make attractive saleable products and extend the shelf life of foods. *Food Processing Technology* P.J. Fellows, 2009-06-22 The first edition of Food processing technology was quickly adopted as the standard text by many food science and technology courses. This completely revised and updated third edition consolidates the position of this textbook as the best single volume introduction to food manufacturing technologies available. This edition has been

updated and extended to include the many developments that have taken place since the second edition was published. In particular, advances in microprocessor control of equipment, minimal processing technologies, functional foods, developments in active or intelligent packaging and storage, and distribution logistics are described. Technologies that relate to cost savings, environmental improvement, or enhanced product quality are highlighted. Additionally, sections in each chapter on the impact of processing on food-borne microorganisms are included for the first time. Introduces a range of processing techniques that are used in food manufacturing. Explains the key principles of each process, including the equipment used and the effects of processing on microorganisms that contaminate foods. Describes post-processing operations, including packaging and distribution logistics. *Food Processing Technology* Peter Fellows, 1988. Basic principles, Ambient Temperature processing, Processing by application of heat, Processing by the removal of heat, Post-processing operations. Appendix A: Vitamins in foods. Appendix B: EEC permitted food additives. Appendix C: Units and dimensions. Appendix D: Temperatures of saturated steam. Appendix E: Sizes of some common UK round cans. Appendix F: Latent heat of vaporisation of water. *Handbook of Food Processing Equipment* George D. Saravacos, Athanasios E. Kostaropoulos, 2002. This book covers the design, selection, and operation of industrial equipment used in the processing, storage, and packaging of foods. Equipment design is based on the principles of transport phenomena and unit operations of Process Engineering, and the physical and transport properties of foods. Food quality and food safety aspects related to food processing equipment are emphasized. Food processing equipment is classified and described according to the basic unit operations, including mechanical transport, mechanical processing, and separations, heat transfer operations, evaporation, dehydration, thermal processing, refrigeration, freezing, and mass transfer. Special equipment used in food packaging and novel food processing is also described. Typical numerical examples illustrate the sizing and selection of some important food processing equipment. Selected equipment suppliers are also listed.

**Advanced Research Methods in Food Processing Technologies** Junaid Ahmad Malik, Megh R. Goyal, Preeti Birwal, Ritesh B. Watharkar, 2024-02-06. This new volume presents new studies and research cases on advanced technologies for food processing and preservation to maintain and improve food quality, extend shelf life, and provide new solutions to food processing challenges. The volume discusses cold plasma and ultrasound processing of foods, introducing new food processing technologies and applications. It also elaborates on microwave processing of foods, describing applications, potential, and intermittent microwave drying of fruits. Other new research focusses on high pressure processing, electrospinning technology in foods, encapsulation techniques, impact of freezing and thawing processes on textural properties of food products, 3D printing of foods, enzyme-linked immunosorbent assay (ELISA) in food authentication, and state-of-the-art applications of nanotechnology in food processing. *Innovative Food Processing Technologies* Kai Knoerzer, Pablo Juliano, Geoffrey W. Smithers, 2016-06-29. *Innovative Food Processing Technologies: Extraction, Separation, Component Modification, and Process Intensification* focuses on advances in new and novel non-thermal processing technologies which allow food producers to

modify and process food with minimal damage to the foodstuffs The book is highly focused on the application of new and novel technologies beginning with an introductory chapter and then detailing technologies which can be used to extract food components Further sections on the use of technologies to modify the structure of food and the separation of food components are also included with a final section focusing on process intensification and enhancement Provides information on a variety of food processing technologies Focuses on advances in new and novel non thermal processing technologies which allow food producers to modify and process food with minimal damage to the foodstuffs Presents a strong focus on the application of technologies in a variety of situations Created by editors who have a background in both the industry and academia

**Case Studies in Novel Food Processing Technologies** C J Doona, 2010-10-28 Novel food processing technologies have significant potential to improve product quality and process efficiency Commercialisation of new products and processes brings exciting opportunities and interesting challenges Case studies in novel food processing technologies provides insightful first hand experiences of many pioneering experts involved in the development and commercialisation of foods produced by novel processing technologies Part one presents case studies of commercial products preserved with the leading nonthermal technologies of high pressure processing and pulsed electric field processing Part two broadens the case histories to include alternative novel techniques such as dense phase carbon dioxide ozone ultrasonics cool plasma and infrared technologies which are applied in food preservation sectors ranging from fresh produce to juices to disinfestation Part three covers novel food preservation techniques using natural antimicrobials novel food packaging technologies and oxygen depleted storage techniques Part four contains case studies of innovations in retort technology microwave heating and predictive modelling that compare thermal versus non thermal processes and evaluate an accelerated 3 year challenge test With its team of distinguished editors and international contributors Case studies in novel food processing technologies is an essential reference for professionals in industry academia and government involved in all aspects of research development and commercialisation of novel food processing technologies Provides insightful first hand experiences of many pioneering experts involved in the development and commercialisation of foods produced by novel processing technologies Presents case studies of commercial products preserved with the leading nonthermal technologies of high pressure processing and pulsed electric field processing Features alternative novel techniques such as dense phase carbon dioxide ozone ultrasonics cool plasma and infrared technologies utilised in food preservation sectors

**Principles and Practices of Small- and Medium-scale Fruit Juice Processing** Richard Pierce Bates, J. R. Morris, Philip G. Crandall, Food and Agriculture Organization of the United Nations, 2001-01-01 While large scale juice processing is the subject of many textbooks this publication aims at the gap in information regarding juice processing at the small and medium scale agro industry level It presents technical and economic information designed to address issues affecting medium size juice processors in developing countries

**Dairy Foods** Adriano Gomes Da Cruz, Chaminda Senaka Ranadheera, Filomena

Nazzaro, Amir Mortazavian, 2021-09-22 *Dairy Foods Processing Quality and Analytical Techniques* provides comprehensive knowledge on the different factors involved in the development and safety precautions behind dairy foods including special references to both theoretical and practical aspects. The book presents relevant information about the quality of dairy foods including raw milk quality, predictive microbiology and risk analysis, food defense and food fraud. In addition, it looks into environmental aspects and consumer perception and goes on to cover methods and practices to process dairy products and analytical techniques behind dairy product development. Techniques explored include time domain magnetic resonance, thermal analysis and chemometric methods. This will be a valuable resource for researchers and practitioners in the dairy industry as well as students in dairy science courses. Offers a comprehensive accounting on the latest analytical methods used in the dairy industry. Focuses on the processing of dairy foods including emerging and novel dairy products with low sodium and sugar contents. Sourced from a team of editors with relevant expertise in dairy food processing.

**Robotics and Automation in the Food Industry** Darwin G Caldwell, 2012-12-03 The implementation of robotics and automation in the food sector offers great potential for improved safety, quality and profitability by optimising process monitoring and control. Robotics and automation in the food industry provides a comprehensive overview of current and emerging technologies and their applications in different industry sectors. Part one introduces key technologies and significant areas of development including automatic process control and robotics in the food industry, sensors for automated quality and safety control and the development of machine vision systems. Optical sensors and online spectroscopy, gripper technologies, wireless sensor networks, WSN and supervisory control and data acquisition (SCADA) systems are discussed with consideration of intelligent quality control systems based on fuzzy logic. Part two goes on to investigate robotics and automation in particular unit operations and industry sectors. The automation of bulk sorting and control of food chilling and freezing is considered, followed by chapters on the use of robotics and automation in the processing and packaging of meat, seafood, fresh produce and confectionery. Automatic control of batch thermal processing of canned foods is explored before a final discussion on automation for a sustainable food industry. With its distinguished editor and international team of expert contributors, *Robotics and automation in the food industry* is an indispensable guide for engineering professionals in the food industry and a key introduction for professionals and academics interested in food production robotics and automation. Provides a comprehensive overview of current and emerging robotics and automation technologies and their applications in different industry sectors. Chapters in part one cover key technologies and significant areas of development including automatic process control and robotics in the food industry and sensors for automated quality and safety control. Part two investigates robotics and automation in particular unit operations and industry sectors including the automation of bulk sorting and the use of robotics and automation in the processing and packaging of meat, seafood, fresh produce and confectionery.

*Cereal Grains for the Food and Beverage Industries* Elke K Arendt, Emanuele Zannini, 2013-04-09 Cereals are a staple of the human

diet and have a significant effect on health As a result they are of major significance to the food industry Cereal grains for the food and beverage industries provides a comprehensive overview of all of the important cereal and pseudo cereal species from their composition to their use in food products The book reviews the major cereal species starting with wheat and triticale before covering rye barley and oats It goes on to discuss other major species such as rice maize sorghum and millet as well as pseudo cereals such as buckwheat quinoa and amaranth Each chapter reviews grain structure chemical composition including carbohydrate and protein content processing and applications in food and beverage products Cereal grains for the food and beverage industries is an essential reference for academic researchers interested in the area of cereal grains and products It is also an invaluable reference for professionals in the food and beverage industry working with cereal products including ingredient manufacturers food technologists nutritionists as well as policy makers and health care professionals A comprehensive overview of all of the important cereal and pseudo cereal species Chapters review each of the following species Wheat Maize Rice Barley Triticale Rye Oats Sorghum Millet Teff Buckwheat Quinoa and Amaranth Reviews grain structure chemical composition processing and applications in food and beverage products for each of the considered grains

**Postharvest Biology and Technology of Tropical and Subtropical Fruits** Elhadi M. Yahia, 2011-06-30 While products such as bananas pineapples kiwifruit and citrus have long been available to consumers in temperate zones new fruits such as lychee longan carambola and mangosteen are now also entering the market Confirmation of the health benefits of tropical and subtropical fruit may also promote consumption further Tropical and subtropical fruits are particularly vulnerable to postharvest losses and are also transported long distances for sale Therefore maximising their quality postharvest is essential and there have been many recent advances in this area Many tropical fruits are processed further into purees juices and other value added products so quality optimisation of processed products is also important The books cover current state of the art and emerging post harvest and processing technologies Volume 1 contains chapters on particular production stages and issues whereas Volumes 2 3 and 4 contain chapters focused on particular fruit Chapters in Volume 4 review the factors affecting the quality of different tropical and subtropical fruits from mangosteen to white sapote Important issues relevant to each product are discussed including means of maintaining quality and minimising losses postharvest recommended storage and transport conditions and processing methods among other topics With its distinguished editor and international team of contributors Volume 4 of Postharvest biology and technology of tropical and subtropical fruits along with the other volumes in the collection are essential references both for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area Along with the other volumes in the collection Volume 4 is an essential reference for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area Reviews factors affecting the quality of different tropical and subtropical fruits concentrating on postharvest biology and technology

Important issues relevant to each particular fruit are discussed such as postharvest physiology preharvest factors affecting postharvest quality and pests and diseases

**Chilled Foods** Michael Stringer, C. Dennis, 2000 Examines aspects of the chilled food industry including the market applicable legislation variety selection refrigeration temperature control quality and safety microbiology and shelf life

### **Nanotechnology in the Food, Beverage and Nutraceutical Industries**

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

*Determining Mycotoxins and Mycotoxigenic Fungi in Food and Feed* Sarah De Saeger, 2011-02-07 Mycotoxins toxic secondary metabolites produced by mycotoxigenic fungi pose a significant risk to the food chain Indeed they may be the most hazardous of all food contaminants in terms of chronic toxicity and legislative limits on their levels in food and feed continue to be developed worldwide Rapid and reliable methods for the determination of both mycotoxigenic fungi and mycotoxins in food and feed are therefore essential This book reviews current and emerging methods in this area Part one focuses on the essentials of mycotoxin determination covering sampling sample preparation and clean up and key determination techniques such as chromatographic separation liquid chromatography mass spectrometry and immunochemical methods Part two then goes on to describe quality assurance official methods and performance criteria for determining mycotoxins in food and feed Topics covered include laboratory accreditation method validation and measurement uncertainty The development and analysis of biomarkers for mycotoxins are discussed in part three Individual chapters focus on detecting exposure in humans and animals Part four is concerned with the processes involved in determining mycotoxigenic fungi in food and feed It also describes the identification of genes and gene clusters involved in mycotoxin synthesis as well as DNA barcoding of toxigenic fungi Finally part five explores some of the emerging methods for mycotoxin analysis ranging from bio sensing to spectroscopic techniques With its distinguished editor and international team of contributors Determining mycotoxins and



mycotoxigenic fungi in food and feed is a standard reference for all those concerned with reducing mycotoxin contamination in the food chain Focuses on the essentials of mycotoxin determination covering sampling sample preparation clean up and key determination techniques Documents quality assurance and official methods and performance criteria for determining mycotoxins in food and feed Explores the processes of determining mycotoxigenic fungi in food and feed including the identification of genes and gene clusters

**Managing Frozen Foods** C J Kennedy, 2000-06-27 The publication of this book has been perfectly timed to serve the needs of a rapidly expanding industry Frozen foods have shed their associations with low quality convenience food and freezing is now recognised as one of the safest and most nutritionally valuable ways to store food Quality is a fundamental competitive advantage However the quality of frozen foods is dependent upon the strength or weakness of each link in the supply chain This book examines the key quality factors at each stage in the frozen food supply chain from raw material selection through processing and storage to retail display Managing frozen foods is a unique overview of this entire industry and provides frozen food manufacturers distributors and retailers with The book begins with a review of the safety of frozen foods in production and distribution It then considers the selection of raw materials and pre treatment before examining the range of physical and chemical factors affecting the sensory and nutritional quality of food during freezing This is followed by a comprehensive review of freezer technology and identifies the essential selection criteria that food manufacturers need to consider Further chapters discuss the selection of packaging cold store design equipment and maintenance as well as the key area of retail display equipment Dr Christopher J Kennedy concludes the book by providing a valuable insight into the future of this industry outlining the opportunities offered by latest developments such as anti freeze proteins and ultrasonic techniques A practical and authoritative guide to best practice in maximising quality An invaluable decision making tool including guidance on the selection of raw materials freezer technology packaging materials and retail display equipment The latest research into the frozen food industry from academic and industry experts

**Food and Beverage Stability and Shelf Life** David Kilcast, Persis Subramaniam, 2011-04-08

Ensuring that foods and beverages remain stable during the required shelf life is critical to their success in the market place yet companies experience difficulties in this area Food and beverage stability and shelf life provides a comprehensive guide to factors influencing stability methods of stability and shelf life assessment and the stability and shelf life of major products Part one describes important food and beverage quality deterioration processes including microbiological spoilage and physical instability Chapters in this section also investigate the effects of ingredients processing and packaging on stability among other factors Part two describes methods for stability and shelf life assessment including food storage trials accelerated testing and shelf life modelling Part three reviews the stability and shelf life of a wide range of products including beer soft drinks fruit bread oils confectionery products milk and seafood With its distinguished editors and international team of expert contributors Food and beverage stability and shelf life is a valuable reference for professionals

involved in quality assurance and product development and researchers focussing on food and beverage stability A comprehensive guide to factors influencing stability methods of stability and shelf life assessment and the stability and shelf life of major products Describes important food and beverage quality deterioration processes exploring microbiological spoilage and physical instability Investigate the effects of ingredients processing and packaging on stability and documents methods for stability and shelf life assessment      *Oxidation in Foods and Beverages and Antioxidant Applications* Eric A Decker, Ryan J Elias, D. Julian McClements, 2010-09-22 Oxidative rancidity is a major cause of food quality deterioration leading to the formation of undesirable off flavours as well as unhealthy compounds Antioxidants are widely employed to inhibit oxidation and with current consumer concerns about synthetic additives and natural antioxidants are of much interest The two volumes of *Oxidation in foods and beverages and antioxidant applications* review food quality deterioration due to oxidation and methods for its control The second volume reviews problems associated with oxidation and its management in different industry sectors Part one focuses on animal products with chapters on the oxidation and protection of red meat poultry fish and dairy products The oxidation of fish oils and foods enriched with omega 3 polyunsaturated fatty acids is also covered Part two reviews oxidation in plant based foods and beverages including edible oils fruit and vegetables beer and wine Oxidation of fried products and emulsion based foods is also discussed Final chapters examine encapsulation to inhibit lipid oxidation and antioxidant active packaging and edible films With its distinguished international team of editors and contributors the two volumes of *Oxidation in foods and beverages and antioxidant applications* is standard references for R D and QA professionals in the food industry as well as academic researchers interested in food quality Reviews problems associated with oxidation and its management in different industry sectors Examines animal products with chapters on the oxidation and protection of red meat poultry and fish Discusses oxidation of fish oils and foods enriched with omega 3 and polyunsaturated fatty acids      *Viruses in Food and Water* N Cook, 2013-05-10 Viruses can be highly infectious and are capable of causing widespread disease outbreaks The significance of viral pathogens in food and waterborne illness is increasingly being recognised and viruses transferred by these routes are important areas of research *Viruses in food and water* reviews the risks surveillance and control of food and waterborne viral disease Part one provides an introduction to food and environmental virology Part two goes on to explore methods of detection surveillance and risk assessment of viruses in food and water it includes chapters on molecular detection of viruses in foods and food processing environments quality control in the analytical laboratory and quantitative risk assessment for food and waterborne viruses Part three focuses on virus transmission routes and control of food and water contamination It contains chapters on fresh produce shellfish and viral presence and control methods in waste water and sewage Finally part four highlights particular pathogens including norovirus hepatitis A and emerging zoonotic viruses *Viruses in food and water* is a standard reference book for microbiologists in academia analytical labs and the food and water treatment industries as well as environmental health

professionals and researchers working on foodborne viruses Explores methods of detection surveillance and risk assessment of viruses in food and water Considers virus transmission routes and control of food and water contamination Highlights advances in the understanding of specific pathogens including norovirus hepatitis A and rotaviruses and the advances in vaccine development

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