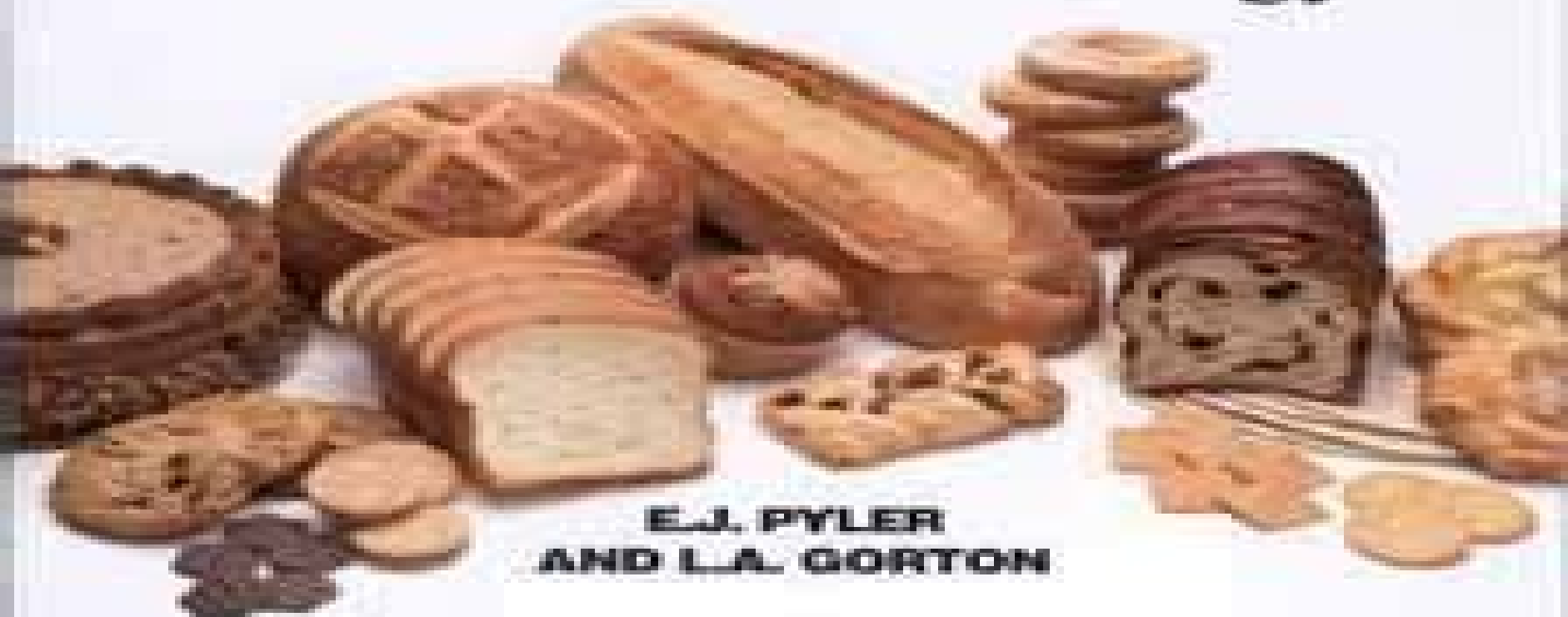


VOLUME 11: Formulation & Production

SECOND EDITION

# BAKING

## Science & Technology



**E.J. PYLER  
AND L.A. GORTON**

# Baking Science And Technology E J Pyler Sosland

**Y. H. Hui, E. Özgül Evranuz**



## **Baking Science And Technology E J Pylar Sosland:**

**Handbook of Breadmaking Technology** C. A. Stear, 2012-12-06 The author's aim in writing this book is to integrate currently available knowledge concerning the basic scientific and technological aspects of breadmaking processes with the diverse breadmaking methods used to manufacture bread in Europe and on the North American continent today To date the main technological advances have been in process mechanization starting with oven development then dough processing or make up equipment followed by continuous and batch mixing techniques from the 1950s to the present time On the engineering side universal emphasis is now being placed on the application of high technology in the form of microprocessors computer controlled equipment and robotization the long term objective being computer integrated manufacture CIM with full automation within the large chain bakery groups in the capitalist countries and the state run collectives of Eastern Europe The application of these key technologies with biotechnology as yet only applied to a limited degree in food manufacture coupled with advances in biochemical and rheological understanding of dough as a biomass for breadmaking should provide us with more expertise and ability to control the processes with greater efficiency The application of fermentable substrates and industrial enzymes under strict kinetic control should contribute to improving the flavour characteristics of bread Current trends towards improving the nutritional contribution of bread to the daily diet are improving the competitive edge of bread as a basic food in the market place

## **Handbook of Food Products**

**Manufacturing, 2 Volume Set** Nirmal K. Sinha, 2007-04-27 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

**Baked Goods Freshness** Ronald Hebeda, 1996-04-30 This work offers comprehensive coverage of the staling process that occurs upon ageing in baked goods It covers in detail the technologies for maintaining freshness including the use of crumb softeners enzymes packaging and preservatives and models the theory of staling on the basis of molecular configuration The work presents current methods for determining the degree of staling by instrumental and organoleptic testing addresses regulatory and labelling requirements for antistaling ingredients and more

## **Food Engineering**

**Aspects of Baking Sweet Goods** Servet Gulum Sumnu, Serpil Sahin, 2008-03-24 Most baking books do not focus on the simultaneous heat and mass transfer that occurs in the baking process thereby ignoring a fundamental facet of process and product development Addressing the engineering and science elements often ignored in current baking books Food Engineering Aspects of Baking Sweet Goods explores important topics in understanding the baking process and reviews recent technological advances With contributions from various international authorities on food science engineering and technology the book covers the rheology of cake batter and cookie dough cake emulsions the physical and thermal properties

of sweet goods and heat and mass transfer during baking It also presents the science of soft wheat products including the quality of soft wheat the functions of ingredients in the baking of sweet goods and the chemical reactions during processing In addition the contributors discuss cake and cookie technologies as well as recent advances in baking soft wheat products The final chapter examines the nutritional issues of consuming fats and sugars and presents general strategies for substituting fats and sugars in baked products Taking an engineering approach to the field this volume delineates the complex food process of baking from ingredients to production to finished product **Kirk-Othmer Food and Feed Technology, 2 Volume Set** Wiley,2007-12-14 This two volume set features selected articles from the Fifth Edition of Wiley's prestigious Kirk Othmer Encyclopedia of Chemical Technology This compact reference features the same breadth and quality of coverage found in the original but with a focus on topics of particular interest to food technologists chemists chemical and process engineers consultants and researchers and educators in food and agricultural businesses alcohol and beverage industries and related fields **Confectionery and Chocolate Engineering** Ferenc A. Mohos,2017-02-06 Confectionery and chocolate manufacture has been dominated by large scale industrial processing for several decades It is often the case though that a trial and error approach is applied to the development of new products and processes rather than verified scientific principles Confectionery and Chocolate Engineering Principles and Applications Second edition adds to information presented in the first edition on essential topics such as food safety quality assurance sweets for special nutritional purposes artisan chocolate and confectioneries In addition information is provided on the fading memory of viscoelastic fluids which are briefly discussed in terms of fractional calculus and gelation as a second order phase transition Chemical operations such as inversion caramelization and the Maillard reaction as well as the complex operations including conching drying frying baking and roasting used in confectionery manufacture are also described This book provides food engineers scientists technologists and students in research industry and food and chemical engineering related courses with a scientific theoretical description and analysis of confectionery manufacturing opening up new possibilities for process and product improvement relating to increased efficiency of operations the use of new materials and new applications for traditional raw materials **Encyclopedia of Food Grains** Colin W Wrigley,Harold Corke,Koushik Seetharaman,Jonathan Faubion,2015-12-17 The Encyclopedia of Food Grains Four Volume Set is an in depth and authoritative reference covering all areas of grain science Coverage includes everything from the genetics of grains to the commercial economic and social aspects of this important food source Also covered are the biology and chemistry of grains the applied aspects of grain production and the processing of grains into various food and beverage products With the paramount role of cereals as a global food source this Encyclopedia is sure to become the standard reference work in the field of science Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information

pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com) Written from an international perspective the Encyclopedia concentrates on the food uses of grains but details are also provided about the wider roles of grains Well organized and accessible it is the ideal resource for students researchers and professionals seeking an authoritative overview on any particular aspect of grain science This second edition has four print volumes which provides over 200 articles on food grains Includes extensive cross referencing and Further Reading lists at the end of each article for deeper exploration into the topic This edition also includes useful items for students and teachers alike with Topic Highlights Learning objectives Exercises for Revision and exercises to explore the topic further

*Baking Science & Technology*, 2009 **Handbook of Plant-Based Fermented Food and Beverage Technology, Second Edition** Y. H. Hui, E. Özgül Evranuz, 2012-05-17 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 cachaca a 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

**Technology of Breadmaking** Stanley P Cauvain, 1995 Not another book on breadmaking A forgivable reaction given the length of time over which bread has been made and the number of texts which have been written about the subject To study breadmaking is to realize that like many other food processes it is constantly changing as processing methodologies become increasingly more sophisticated yet at the same time we realize that we are dealing with a food stuff the forms of which are very traditional We can for example look at ancient illustrations of breads in manuscripts and paintings and recognize products which we still make today This contrast of ancient and modern embodied in a single processed foodstuff is part of what makes bread such a unique subject for study We cannot for example say the same for a can of baked beans Another aspect of the uniqueness of breadmaking lies in the requirement for a thorough understanding of the link between raw materials and processing methods in order to make

an edible product This is mainly true because of the special properties of wheat proteins aspects of which are explored in most of the chapters of this book Wheat is a product of the natural environment and while breeding and farming practices can modify aspects of wheat quality we millers and bakers still have to respond to the strong influences of the environment

**Breadmaking** Stanley P. Cauvain, 2012-04-25 The first edition of Breadmaking Improving quality quickly established itself as an essential purchase for baking professionals and researchers in this area With comprehensively updated and revised coverage including six new chapters the second edition helps readers to understand the latest developments in bread making science and practice The book opens with two introductory chapters providing an overview of the breadmaking process Part one focuses on the impacts of wheat and flour quality on bread covering topics such as wheat chemistry wheat starch structure grain quality assessment milling and wheat breeding Part two covers dough development and bread ingredients with chapters on dough aeration and rheology the use of redox agents and enzymes in breadmaking and water control among other topics In part three the focus shifts to bread sensory quality shelf life and safety Topics covered include bread aroma staling and contamination Finally part four looks at particular bread products such as high fibre breads those made from partially baked and frozen dough and those made from non wheat flours With its distinguished editor and international team of contributors the second edition of Breadmaking Improving quality is a standard reference for researchers and professionals in the bread industry and all those involved in academic research on breadmaking science and practice With comprehensively updated and revised coverage this second edition outlines the latest developments in breadmaking science and practice Covers topics such as wheat chemistry wheat starch structure grain quality assessment milling and wheat breeding Discusses dough development and bread ingredients with chapters on dough aeration and rheology

**Baking Science and Technology** Ernst J. Pyler, 1988-06-01 **Technology of Breadmaking** Stanley Cauvain, 2015-02-17 This practical comprehensive guide illuminates all aspects of breadmaking to give bakers scientists technologists and students a thorough understanding of the many new developments shaping the industry This book bridges the gap between scientific and practical accounts by providing technical coverage of the complex processes that link together to make bread and fermented products Chapters cover the nature of bread products the role of the ingredients in determining their quality processing methods and their control and equipment functions Emphasis is on exploring the contributions of individual components and processing stages to final bread quality reviewing the current state of technical knowledge on breadmaking This third edition reviews the new knowledge which has become available in the last 10 years and considers how the global trends of increased availability and wider range of fermented products around the world impact on current and future technological challenges for bakers Stanley P Cauvain is the Director and Vice President of Research and Development activities at BakeTran and Professor at the International Institute of Agri Food Security Curtin University Perth Western Australia **Handbook on Sourdough Biotechnology** Marco Gobbetti, Michael Gänzle, 2012-12-12 In the

last few decades many efforts have been made to exploit sourdough's potential for making baked goods. Through the biotechnology of this traditional baking method many sensory, rheological, nutritional and shelf life properties have been discovered and/or rediscovered. Bakery industries are greatly attracted by the potentials that sourdough presents and new industrial protocols are being developed. To the best of our knowledge there has been no single book dedicated to sourdough biotechnology and which clearly demonstrates its potential. This book aims at defining and highlighting the microbiological, technological, nutritional and chemical aspects of sourdough biotechnology. The book will be the first reference guide on this topic for the worldwide scientific teaching and students communities also opening a way of communication and transferring the main results to a more productive industrial application.

*Computational Fluid Dynamics in Food Processing* Da-Wen Sun, 2018-10-26 Since many processes in the food industry involve fluid flow and heat and mass transfer Computational Fluid Dynamics (CFD) provides a powerful early stage simulation tool for gaining a qualitative and quantitative assessment of the performance of food processing allowing engineers to test concepts all the way through the development of a process or system. Published in 2007 the first edition was the first book to address the use of CFD in food processing applications and its aims were to present a comprehensive review of CFD applications for the food industry and pinpoint the research and development trends in the development of the technology to provide the engineer and technologist working in research development and operations in the food industry with critical comprehensive and readily accessible information on the art and science of CFD and to serve as an essential reference source to undergraduate and postgraduate students and researchers in universities and research institutions. This will continue to be the purpose of this second edition. In the second edition in order to reflect the most recent research and development trends in the technology only a few original chapters are updated with the latest developments. Therefore this new edition mostly contains new chapters covering the analysis and optimization of cold chain facilities simulation of thermal processing and modeling of heat exchangers and CFD applications in other food processes.

*Legumes Research* Jose C. Jimenez-Lopez, Alfonso Clemente, 2022-10-12 Legumes have nutraceutical qualities that impart beneficial effects on human health. They are an alternative protein source with great potential for use in producing novel foods with improved nutritional properties. This book presents a comprehensive overview of legume proteins including information on their nutritional and nutraceutical profiles, the health benefits of their compounds and their underlying bioactivities such as anti-diabetic, hepatoprotective, anti-inflammatory, antioxidant and anti-cancer properties.

Yeast technology Gerald Reed, 2012-12-06 Yeasts are the active agents responsible for three of our most important foods: bread, wine and beer and for the almost universally used mind/personality altering drug ethanol. Anthropologists have suggested that it was the production of ethanol that motivated primitive people to settle down and become farmers. The Earth is thought to be about 4.5 billion years old. Fossil microorganisms have been found in Earth rock 3.3 to 3.5 billion years old. Microbes have been on Earth for that length of time carrying out their principal task of recycling.

organic matter as they still do today Yeasts have most likely been on Earth for at least 2 billion years before humans arrived and they play a key role in the conversion of sugars to alcohol and carbon dioxide Early humans had no concept of either microorganisms or fermentation yet the earliest historical records indicate that by 6000 B C they knew how to make bread beer and wine Earliest humans were foragers who collected and ate leaves tubers fruits berries nuts and cereal seeds most of the day much as apes do today in the wild Crushed fruits readily undergo natural fermentation by indigenous yeasts and moist seeds germinate and develop amylases that produce fermentable sugars Honey the first concentrated sweet known to humans also spontaneously ferments to alcohol if it is by chance diluted with rainwater Thus yeasts and other microbes have had a long history of 2 to 3

*Water Relationships in Foods* Harry Levine, Louise Slade, 1991-09-30 This book was developed from the papers presented at a symposium on Water Relationships in Foods which was held from April 10-14 1989 at the 197th National Meeting of the American Chemical Society in Dallas Texas under the auspices of the Agricultural and Food Chemistry Division of ACS The editors of this book organized the symposium to bring together an esteemed group of internationally respected experts currently active in the field of water relationships in foods to discuss recent advances in the 1980 s and future trends for the 1990 s It was the hope of all these contributors that this ACS symposium would become a memorable keystone above the foundation underlying the field of water in foods This strong foundation has been constructed in large part from earlier technical conferences and books such as the four milestone International Symposia on the Properties of Water ISOPOW I-IV the recent IFT Basic Symposium on Water Activity and Penang meeting on Food Preservation by Moisture Control as well as the key fundamental contributions from the classic 1980 ACS Symposium Series 127 on Water in Polymers and from Felix Franks' famous seven volume Comprehensive Treatise on Water plus five subsequent volumes of the ongoing Water Science Reviews The objective of the 1989 ACS symposium was to build on this foundation by emphasizing the most recent and major advances

Infrared Heating for Food and Agricultural Processing Zhongli Pan, Griffiths Gregory Atungulu, 2010-07-26 It has been nearly 40 years since the last book on infrared heating for food processing was published and in the meantime the field has seen significant progress in understanding the mechanism of the infrared IR heating of food products and interactions between IR radiation and food components Infrared Heating for Food and Agricultural Processing

Handbook of Food Processing Theodoros Varzakas, Constantina Tzia, 2015-10-22 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 relevant



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