

Baking Technology Breadmaking

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not another book on breadmaking a forgiveable 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

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 foodstuff the forms of which are very traditional new ideas and raw materials are constantly being presented to bakers from wheat breeders millers and ingredient and equipment suppliers for their evaluation in addition there are on going changes in legislation and consumer demands to meet such pressures bakers must be able to better integrate their key raw material wheat flour with other ingredients and processing methods to deliver bread of the appropriate quality technology of breadmaking second edition sets out to identify and present the new knowledge that has become available in last 10 years as well as update information like the first edition it provides a useful tool to help bakers scientists and technologists to cope with those changes

presents an introduction to the techniques and information required for the testing and analysis of cereals throughout the entire grain chain from breeding through harvesting and storage to processing and the manufacture of cereal based food products

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

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

there has been a wealth of recent research on the complex changes involved in bread making and how they influence the many traits consumers use to define quality bread making improving quality sums up this key research and what it means for improved process control and a better more consistent product after an introductory review of bread making as a whole part one discusses wheat and flour quality chapter 3 summarises current research on the structure of wheat providing the context for chapters on wheat proteins chapters 5 and 6 and starch chapter 7 there are also chapters on ways of measuring wheat and flour quality and improving flour for bread making part two reviews dough formation and its impact on the structure and properties of bread it includes chapters on the molecular structure of dough foam formation and bread aeration together with discussion of the role of key ingredients such as water a final group of chapters then discusses other aspects of quality such as improving taste and nutritional properties as well as preventing moulds and mycotoxin contamination with its distinguished editor and international team of contributors bread making improving quality is a standard work both for industry and the research community

consumer driven products have kept the food industry at the forefront of technological innovations for example the redefinition of the once accepted compromise between convenience and quality is just one of the current issues driving the development of new products an overview of a range of solutions for these challenges innovation in food engi

this text comprehensively covers the rituals traditions and receipts of ancestral processes of bread making from multiple countries including the scientific and technological character of the science of bread making and sourdough biotechnology individual chapters cover the scientific aspects of bread making in different cultures and traditions as well as the technological phenomena occurring during the bread making process utilizing the full network of sourdomics from the cost initiative pictures and illustrations are used to explain the science behind bread making processes and the cultural historical and traditional elements associated with bread making in multiple countries authored by bread making experts from the breadth of europe the process of bread fermentation in each country and region is covered in detail the traditions surrounding bread making are simply the empirical know how passed between generations and this book s main purpose is to perpetuate these traditions and know how provides a description of the culture of european peoples with respect to the technology of bread making and sourdough biotechnology explains the process of bread fermentation using simple language combined with scientific rigor high quality pictures and illustrations enrich the scientific and cultural elements mentioned in each chapter

monthly references from world literature of books about 1000 journals and patents from 18 selected countries classified arrangement according to 18 sections such as milk and dairy products eggs and egg products and food microbiology author subject indexes

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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 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

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