

# 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

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

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

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

technological choice and transfer in food processing in developing countries an overview the choice of technology in food processing some case studies private foreign investment and the transfer of technology in food processing a country case study food processing in kenya conclusions and policy implications

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