

FOOD PRESERVATION TECHNOLOGY SERIES



# Cereal Grains

## Laboratory Reference and Procedures Manual

Sergio O. Serna-Saldivar



CRC Press  
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# Cereal Grains Laboratory Reference And Procedures Manual Food Preservation Technology

**Professor Miloslav Rechcigl**



## **Cereal Grains Laboratory Reference And Procedures Manual Food Preservation Technology:**

Cereal Grains Sergio O. Serna-Saldivar, 2016-04-19 While cereals remain the world's largest food yield with more than 2.3 billion metric tons produced annually, consumer demands are on the rise for healthier cereal products with greater nutrition. Cereal Grains: Properties, Processing, and Nutritional Attributes provides a complete exploration of the scientific principles related to domestication.

**Cereal Grains** Sergio O. Serna-Saldivar, 2012-02-16 Emphasizing the essential principles underlying the preparation of cereal-based products and demonstrating the roles of ingredients, Cereal Grains: Laboratory Reference and Procedures Manual is a practical laboratory manual complementing the author's text Cereal Grains: Properties, Processing, and Nutritional Attributes, organized so that readers

**Unit Operations in Food Grain Processing** C.K. Sunil, K.A. Athmaselvi, N. Venkatachalapathy, C. Anandharamakrishnan, V.M. Balasubramaniam, 2024-05-09 Unit Operations in Food Grain Processing covers theory and principles as well as best practices in cleaning, grading, drying, storage, milling, handling, transportation, and packaging of grains. The book begins with an overview of grain types, grain structure and composition, and engineering properties of different grains. It then moves into the aspects of processing. It reviews best practices in processing rice, wheat, pulses, oilseeds, millets, and pseudocereals. The book discusses value addition methods, products of grains, and waste and by-product utilization from grains. These discussions outline equipment and machinery needed, different methods of operations for various grains, and advances in grain processing as well as grain waste and by-product utilization. The book has 18 chapters in total. Each chapter discusses principles, design, illustrations, advances, and challenges to aid in understanding. Therefore, this book is a valuable reference material for academicians, researchers, consultants, manufacturers, and practitioners in the field of food processing. Presents different methods of operations and the latest advances in grain processing. Explores value addition, grain waste, and by-product utilization from grains. Covers all the unit operations followed in grains processing: theory and principle. Covers application of emerging technologies in grain processing.

**Cereal Grains** Gulzar Ahmad Nayik, Tabussam Tufail, Faqir Muhammad Anjum, Mohammad Javed Ansari, 2023-03-07 Ever since the beginnings of agriculture, cereals have provided unlimited health benefits to mankind as a staple food in our diet. Cereals are rich in complex carbohydrates that provide us ample energy and help to prevent many diseases such as constipation, colon disorders, and high blood sugar levels. They enrich our overall health with abundant proteins, fats, lipids, minerals, vitamins, and enzymes. In every part of the world, cereals are consumed for breakfast, lunch, or dinner. Cereal Grains: Composition, Nutritional Attributes, and Potential Applications provides an overview of cereals, including their properties, chemical composition, applications, postharvest losses, storage, and quality. Various well-versed researchers across the globe share their knowledge and experience covering cereals' role in food security, allergens in grains, phytochemical profile, industrial applications, health benefits, global standard of cereals, and recent advances in cereal processing. **Key Features:** Contains comprehensive information on general composition and properties of cereals. Discusses the

recent advances in cereal technology Provides knowledge on bioactive characterization of cereal grains Contain information on future aspect of grain quality and allergens in cereal grains This handbook is a valuable resource for students researchers and industrial practitioners who wish to enhance their knowledge and insights on cereal science Researchers scientists and other professionals working in various cereal processing industries and other horticultural departments will also find the comprehensive information relevant to their work Introduction to Food Process Engineering Albert Ibarz, Gustavo V. Barbosa-Canovas, 2014-04-10 Consumer expectations are systematically growing with demands for foods with a number of attributes which are sometimes difficult for manufacturers to meet The engineering processes that are needed to obtain top quality foods are a major challenge due to the diversity of raw materials intermediates and final products As in any other enterprise the food industry must optimize each of the steps in the production chain to attain the best possible results There is no question that a very important aspect to take into consideration when developing a process designing a food factory or modifying existing facilities is the in depth knowledge of the basic engineering aspects involved in a given project Introduction to Food Process Engineering covers the fundamental principles necessary to study understand and analyze most unit operations in the food engineering domain It was conceived with two clear objectives in mind 1 to present all of the subjects in a systematic coherent and sequential fashion in order to provide an excellent knowledge base for a number of conventional and unconventional processes encountered in food industry processing lines as well as novel processes at the research and development stages 2 to be the best grounding possible for another CRC Press publication Unit Operations in Food Engineering Second Edition by the same authors These two books can be consulted independently but at the same time there is a significant and welcomed match between the two in terms of terminology definitions units symbols and nomenclature Highlights of the book include Dimensional analysis and similarities Physicochemistry of food systems Heat and mass transfer in food Food rheology Physical properties Water activity Thermal processing Chilling and freezing Evaporation Dehydration Extensive examples problems and solutions *Millets* Anil Kumar Siroha, Sneh Punia, Sukhvinder Singh Purewal, Kawaljit Singh Sandhu, 2021-07-29 Millets are low cost cereal grains and widely used in the food industry and animal husbandry as an important source of food and feed As a rich source of starch protein minerals vitamins and specific bioactive compounds that contain beneficial antioxidant properties they have gained considerable attention as a botanical dietary supplement and various functional foods Millets Properties Processing and Health Benefits explores millet production chemistry and nutritional aspects processing technologies product formulations and more Understanding the properties of millets provides a basis for better utilizing millet crops in addition to further development of millets as an important industrial crop Key Features Provides millet taxonomy history nutritional aspects and health benefits Discusses the physical and functional properties of millets Explores various millet based products Deals with starch composition structure properties and applications Touches on postharvest management of millets This book combines information on the

composition functional properties and processing along with information on the health properties of millets With its unique presentation on millets flour and starch it will be suitable for those wanting to use millets in various food products including food technologists nutritionists research scientists and agriculture professionals **Edible Films and Coatings** Maria Pilar Montero Garcia,M. Carmen Gómez-Guillén,M. Elvira López-Caballero,Gustavo V. Barbosa-Cánovas,2016-09-19 The search for better strategies to preserve foods with minimal changes during processing has been of great interest in recent decades Traditionally edible films and coatings have been used as a partial barrier to moisture oxygen and carbon dioxide through selective permeability to gases as well as improving mechanical handling properties The advances in this area have been breathtaking and in fact their implementation in the industry is already a reality Even so there are still new developments in various fields and from various perspectives worth reporting Edible Films and Coatings Fundamentals and Applications discusses the newest generation of edible films and coatings that are being especially designed to allow the incorporation and or controlled release of specific additives by means of nanoencapsulation layer by layer assembly and other promising technologies Covering the latest novelties in research conducted in the field of edible packaging it considers state of the art innovations in coatings and films novel applications particularly in the design of gourmet foods new advances in the incorporation of bioactive compounds and potential applications in agronomy an as yet little explored area which could provide considerable advances in the preservation and quality of foods in the field Shelf Life Assessment of Food Maria Cristina Nicoli,2012-05-11 Determining accurate shelf life data for foods is essential for assuring food quality and protecting consumers from the effects of degradation With a proper balance of theory and practical examples Shelf Life Assessment of Food presents the essential criteria and current methodologies for obtaining accurate and reliable shelf life dating Defin

Engineering Aspects of Cereal and Cereal-Based Products Raquel de Pinho Ferreira Guine,Paula Maria dos Reis Correia,2013-07-15 Cereal food engineering has become increasingly important in the food industry over the years as it plays a key role in developing new food products and improved manufacturing processes Engineering Aspects of Cereal and Cereal Based Products focuses on the recent growth in cereal technology and baked foods science reviewing the latest updates in technological developments in agricultural cultivation and processing for cereal scientists food engineers and students Cereals include a vast number of biochemical entities very diverse in composition and properties as well as technological abilities The text discusses cereal production which varies according to cultural practices type of cereal cultivar and region It also addresses transportation storage and cereal quality important at every phase from harvest to production Chapters cover technological operations such as wet and dry milling and extrusion and they address particular processing operations that are subject to improvements including bread and confectionary baking The text also examines malting rice processing breakfast cereals and pasta In addition it explores new trends in cereal based products and the effects of processing on nutritional and functional properties of cereal products This book discusses the basic elements of cereal technology from

production to transformation including the most important processing operations in cereal technology with emphasis on the engineering aspects

**Bread and Its Fortification** Cristina M. Rosell, Joanna Bajerska, Aly F. El Sheikha, 2015-09-22 Today bread supplies over half of the caloric intake of the world's population including a high proportion of the intake of Vitamins B and E Bread therefore is a major food of the world Bread was the main staples of the ancient Egyptian diet Around 7 000 BC humans probably Egyptians somehow learned to grind grains in water and heat the mix on

**Snack Foods** Sergio O. Serna-Saldivar, 2022-04-20 The diverse segments of the snack industries that generate close to 520 billion of annual sales are adapting to new consumer's expectations especially in terms of convenience flavor shelf life and nutritional and health claims Snack Foods Processing Innovation and Nutritional Aspects was conceptualized to thoroughly cover practical and scientific aspects related to the chemistry technology processing functionality quality control analysis and nutrition and health implications of the wide array of snacks derived from grains fruits vegetables milk and meat poultry seafood This book focuses on novel topics influencing food product development like innovation new emerging technologies and the manufacturing of nutritious and health promoting snacks with a high processing efficiency The up to date chapters provide technical reviews emphasising flavored salty snacks commonly used as finger foods including popcorn wheat based products crispbreads pretzels crackers lime cooked maize snacks tortilla chips and corn chips extruded items expanded and half products or pellets potato chips peanuts almonds tree nuts and products derived from fruits vegetables milk animal and marine sources Key Features Describes traditional and novel processes and unit operations used for the industrial production of plant and animal based snacks Depicts major processes employed for the industrial production of raw materials oils flavorings and packaging materials used in snack food operations Contains relevant and updated information about quality control and nutritional attributes and health implications of snack foods Includes simple to understand flowcharts relevant information in tables and recent innovations and trends Divided into four sections Snack Foods aims to understand the role of the major unit operations used to process snacks like thermal processes including deep fat frying seasoning packaging and the emerging 3 D printing technology Moreover the book covers the processing and characteristics of the most relevant raw materials used in snack operations like cereal based refined grits starches and flours followed by chapters for oils seasoning formulations and packaging materials The third and most extensive part of the book is comprised of several chapters which describe the manufacturing and quality control of snacks mentioned above The fourth section is comprised of two chapters related to the nutritional and nutraceutical and health promoting properties of all classes of snacks discussed herein

Corn Sergio O. Serna-Saldivar, 2018-11-09 Corn Chemistry and Technology Third Edition provides a broad perspective on corn from expert agronomists food scientists and geneticists This encyclopedic storehouse of comprehensive information on all aspects of the world's largest crop in metric tons includes extensive coverage of recent development in genetic modification for the generation of new hybrids and genotypes New chapters highlight the importance of corn as a raw

material for the production of fuel bioethanol and the emerging topic of phytochemicals or nutraceutical compounds associated to different types of corns and their effect on human health especially in the prevention of chronic diseases and cancer Written by international experts on corn and edited by a highly respected academics this new edition will remain the industry standard on the topic Presents new chapters that deal with specialty corns the production of first generation bioethanol and the important relationship of corn phytochemicals or nutraceuticals with human health Provides contributions from a new editor and a number of new contributors who bring a fresh take on this highly successful volume Includes vastly increased content relating to recent developments in genetic modification for the generation of new hybrids and genotypes Contains encyclopedic coverage of grain chemistry and nutritional quality of this extensively farmed product Covers the production and handling of corn with both food and non food applications

### **Tortillas: Wheat Flour and Corn Products**

LW Rooney, Sergio O. Serna-Saldivar, 2015-01-01 Corn and wheat are among the most important cereals worldwide representing many of the calories and proteins consumed Tortillas and tortilla related products are among the fastest growing segments of the food industry and represent a sizeable portion of those calories Tortillas Wheat Flour and Corn Products answers the food industry's need to meet the growing demand for high quality tortillas and tortilla based foods This book will guide food scientists product developers and nutritionists through the fascinating science and technology behind the production of corn and wheat flour tortillas This title is the most comprehensive English language book of its kind It fully describes the technology nutritional value and quality control measures of corn and wheat flour tortillas tortilla chips and related products It accomplishes this through 300 pages of quality text complemented by easy to understand facts figures tables and summaries that seamlessly guide users to an understanding of the fundamental underlying principles that optimize tortilla production and guide product development Tortillas Wheat Flour and Corn Products is ideal for academics and industry professionals including food science and nutrition students people working in the tortilla and snack food industries industry staff interested in the quality control assurance aspects of tortillas and professionals interested in cereal processing and product development Edited by the renowned food science educators in tortilla production this book provides high quality training at both the academic and corporate levels A history of corn and wheat flour tortillas Ideal physicochemical properties of corn kernels and wheat flours to optimize processing Quality attributes of processed products and quality control troubleshooting Food safety and quality control from the raw materials to intermediate and finished products Various industrial setups and pilot plant techniques currently used to manufacture wheat flour tortillas Ideal physical chemical and rheological properties of tortilla flours Roles of leavening agents in tortilla quality Functions of dough emulsifiers and reducing agents in textural shelf life and process ability Effects and roles of preservatives and supplemented enzymes on shelf life Common quality and consistency issues encountered by the flour tortilla industry along with solutions and recommendations Optimum properties of corn kernels for tortillas and nixtamalized snacks such as parched fried corn

corn chips and tortilla chips Milling processes and quality control testing used to obtain lime cooked dough the backbone for the fabrication of table tortillas and corn and tortilla chips      **World Food Problem** Professor Miloslav Rechcigl, 2018-01-10 The aim of this publication is to provide the interested reader with an authoritative and comprehensive up to date bibliography on all important facets of the world food problem encompassing such questions as the availability of natural resources the present and future sources of energy environmental quality population growth world malnutrition the state of food production food consumption patterns future food needs toxicological aspects of food agricultural and industrial aspects of food production and family planning It is the first compilation of its kind in that it covers the subject from a multidisciplinary point of view including publications that deal with the description and analysis of the world food problem as well as those that offer alternative strategies and specific technological measures for alleviating the problem      **Government Reports Announcements** ,1975-07-25      **Bibliography of Agriculture with Subject Index** ,1993-05      **Government Reports Announcements & Index** ,1985-04      **Bulletin of the Atomic Scientists** ,1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world      **Technical Books in Print** ,1974      *Food Science and Technology Abstracts* ,1979 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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