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Nutrition and health-effects; Consumption as food; Flavor of rye grain; Summary; References; 5 Rice; Introduction; Production and consumption of rice; Rice flour production
Composition of rice grain and its milling fractions
Rice flours types and their functional properties; Rice flour-based bread; Rice flour in cake making; Use of rice flour in cookies production; Other bakery rice-based products; Acknowledgments; References; 6 Barley, Maize, Sorghum, Millet, and Other Cereal Grains; Introduction; Ethnic goods from coarse grains across the continents; Coarse cereal commodities: production, consumption, share of calories and categories of use; Barley; Oat; Sorghum; Bakery products from coarse grains: challenges and opportunities of composite breads; Maize breads
Barley breads
Oat breads; Sorghum breads; Millet breads; Conclusions and future prospects; References; Part 3: Baking Ingredients; 7 Water *; Introduction; Water; The polar water molecules; Gaseous H₂O-water vapor; Solid and liquid H₂O; Aqueous solutions; Hydrophilic and hydrophobic effects in baking; Gelatinization of starch; Water and proteins; Microwave baking; Water activity; References; 8 Yeast; Introduction; Baker's yeast production; Technological needs; Yeast selection and strain development; References; 9 Other Leavening Agents; Introduction; Chemical leavening
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12 Lipids : Properties and Functionality

Sommario/riassunto

Baking is a process that has been practiced for centuries, and bakery products range in complexity from the simple ingredients of a plain pastry to the numerous components of a cake. While currently there are many books available aimed at food service operators, culinary art instruction and consumers, relatively few professional publications exist that cover the science and technology of baking. In this book, professionals from industry, government and academia contribute their perspectives on the state of industrial baking today. The second edition of this successful and comprehensiv
