

# **Handbook of Dough Fermentations**



edited by  
**Karel Kulp**  
**Klaus Lorenz**

# Handbook Of Dough Fermentations Food Science And Technology

**Stanley P. Cauvain**



## **Handbook Of Dough Fermentations Food Science And Technology:**

**Handbook of Dough Fermentations** Karel Kulp, Klaus Lorenz, 2003-05-20 Handbook of Dough Fermentations describes the preparation of ferments and utilization of starters in the commercial baking and food industries and offers in depth discussion on the modification of sourdough processes in the production of common bakery products as well as the microbiological principles fermentation pathways product formulations and technological methodologies relating to these procedures This unique reference examines statistical market trends for fermented cereal yeast and natural and sourdough products It pinpoints areas of potential for products and foods using fermentation science and analyzes the application of starters in the production of specific products *Handbook of Food and Beverage Fermentation Technology* Y. H. Hui, Lisbeth Meunier-Goddik, Jytte Josephsen, Wai-Kit Nip, Peggy S. Stanfield, 2004-03-19 Over the past decade new applications of genetic engineering in the fermentation of food products have received a great deal of coverage in scientific literature While many books focus solely on recent developments this reference book highlights these developments and provides detailed background and manufacturing information Co Edited by Fidel Toldra Recipient of the 2010 Distinguished Research Award from the American Meat Science Association Presenting a comprehensive overview Handbook of Food and Beverage Fermentation Technology examines a wide range of starter cultures and manufacturing procedures for popular alcoholic beverages and bakery dairy meat cereal soy and vegetable food products An international panel of experts from government industry and academia provide an in depth review of fermentation history microorganisms quality assurance practices and manufacturing guidelines The text focuses on the quality of the final food product flavor formation and new advances in starter cultures for dairy fermentations using recent examples that depict the main species used their characteristics and their impact on the development of other fermented foods With approximately 2 300 references for further exploration this is a valuable resource for food scientists technologists microbiologists toxicologists and processors

Handbook of Food Science, Technology, and Engineering Yiu H. Hui, 2006 **Handbook of Dough Fermentations** Karel Kulp, Klaus Lorenz, 2003-05-20 This unique reference describes the preparation of ferments and utilization of starters in the commercial baking and food industries offering in depth discussion on the modification of sourdough processes in the production of common bakery products as well as the microbiological principles fermentation pathways product formulations and technological methodologies relating to these procedures **Handbook of Food Science, Technology, and Engineering - 4 Volume Set** Y. H. Hui, Frank Sherkat, 2005-12-19 Advances in food science technology and engineering are occurring at such a rapid rate that obtaining current detailed information is challenging at best While almost everyone engaged in these disciplines has accumulated a vast variety of data over time an organized comprehensive resource containing this data would be invaluable to have The *Handbook of Sourdough Microbiota and Fermentation* Fatih Ozogul, João Miguel Rocha, Elena Bartkiene, 2024-10-23 Handbook of Sourdough Microbiota and Fermentation Food Safety

Health Benefits and Product Development links the cereal and sourdough based microorganisms fermentations and microbial metabolites with food hygiene and safety functional and health promoting properties and their potential interest to be employed in the agro food sector and beyond Structured in a way that provides the latest findings and most recent approaches and trends on sourdough this book also emphasizes the biotechnological aspects such as fermentation food processing and the use of beneficial microorganisms and their metabolites in different ways and in different industries Written by experts from a multidisciplinary perspective this book is a remarkable reference to a wide range of audiences with different backgrounds from academics and researchers in food science to industrial food engineers and technicians food plant managers and new product and processing developers managers in food packaging and preservation Covers how cereal based and sourdough microorganisms and microbial metabolites can be used to extend the shelf life of bread and other agro food products Presents microbial safety fermentations ropiness of baking based products bacterial and mold food spoilage and the health promotion of sourdough and cereal based products Describes how cereal and sourdough based products can contribute to convenient nutritious stable natural low processed and healthy food

**Handbook of Brewing, Second Edition** Graham G. Stewart, Fergus G. Priest, 2006-02-22 It has been ten years since its first edition making the Handbook of Brewing Second Edition the must have resource on the science and technology of beer production It recounts how during this time the industry has transformed both commercially and technically and how many companies have been subsumed into large multinationals while at the other extreme microbreweries have flourished in many parts of the world It also explains how massive improvements in computer power and automation have modernized the brewhouse while developments in biotechnology have steadily improved brewing efficiency beer quality and shelf life In addition to these topics the book written by an international team of experts recognized for their contributions to brewing science and technology also covers traditional beer styles as well as more obscure beverages such as chocolate or coffee flavored beers It includes the many factors to be considered in setting up and operating a microbrewery as well as the range of novel beers and beer related products currently being considered by the brewing industry It also describes new avenues that challenge the brewer's art of manufacturing a quality beverage from barley based raw materials Thorough and accessible the Handbook of Brewing Second Edition provides the essential information for those who are involved or interested in the brewing industry

*The Oxford Handbook of Food Fermentations* Charles W. Bamforth, Robert E. Ward, 2014-07-17 Fermentation as a chemical and biological process is everywhere Countless societies throughout history have used it to form a vast array of foods and drinks many of which were integral and essential to those cultures it could be argued that the production of beer and bread formed the basis of many agriculture based civilizations Today nearly every person on the planet consumes fermented products from beer and wine to bread and dairy products to certain types of meat and fish Fermentation is a nearly ubiquitous process in today's food science and an aspect of chemistry truly worth understanding more fully In *The Oxford Handbook of Food*

Fermentations Charles W Bamforth and Robert E Ward have collected and edited contributions from many of the world's experts on food fermentation each focused on a different fermentation product The volume contains authoritative accounts on fermented beverages distilled beverages and a diverse set of foods as well as chapters on relevant biotechnology Each chapter embraces the nature of the product its production and its final composition The text also touches on the raw materials and processes involved in producing packaged foodstuff and the likely future trends in each area In the conclusion Bamforth and Ward present a comparison between the various products and the diverse technologies employed to produce them Fermentation is a multifaceted process that affects a wide variety of products we consume and The Oxford Handbook of Food Fermentations is the definitive resource that captures the science behind fermentation as well as its diverse applications

**Aflatoxin and Food Safety** Hamed K. Abbas,2005-11-01 Aflatoxins are responsible for damaging up to 25% of the world's food crops resulting in large economic losses in developed countries and human and animal disease in under developed ones In addition to aflatoxins the presence of other mycotoxins particularly fumonisins brings additional concerns about the safety of food and feed supplies

**The Specialty Foods** Yanyun Zhao,2012-05-22 Specialty foods are made from high quality ingredients and offer distinct features to targeted customers who pay a premium price for their perceived benefits The rise in production and sale of these foods has increased concerns over product quality and safety

**Specialty Foods Processing Technology Quality and Safety** explores how these foods differ

**Dietary fibre components and functions** Hannu Salovaara,Fred Gates,Maija Tenkanen,2023-08-28 Dietary fibre is of interest to both science and industry and yet despite growing awareness of its benefits to health and nutrition intakes remain below the recommended level Industry has responded by developing new applications products and processes to help consumers increase their fibre intake in a convenient way While regulations on health claims are being developed for example in the EU some countries have allowed the use of health claims to help promote consumer awareness of the benefits of a higher fibre intake and to inform consumers of good sources of fibre At the same time science is developing the concept of dietary fibre The mechanisms and actual components behind the physiological effects are of particular interest and so are the analytical tools to measure these The fate of dietary fibre in the gut where certain fibre components are fermented and converted by microbes gains a great deal of attention The role of molecular weight and viscosity of dietary fibre components in determining the health benefits are also discussed This book is essential reading for all researchers and those who concern themselves with bioprocesses and food technology Dietary fibre components and functions covers the most up to date research available on dietary fibre and will be an indispensable tool for all scientists involved in research and development in this field

**Food Processing Operations Modeling** Joseph M. Irudayaraj,2001-02-27 A comprehensive survey of thermal processing and modelling techniques in food process engineering It combines theory and practice to solve actual problems in the food processing industry emphasizing heat and mass transfer fluid flow electromagnetics stochastic processes and neural network analysis in

food systems There are specific case studies with over 350 numerical and computational equations and solutions

**Physical Principles of Food Preservation** Marcus Karel, Daryl B. Lund, 2003-06-20 This reference examines the properties conditions and theoretical principles governing the safety and efficacy of various food preservation storage and packaging techniques The book analyzes methods to predict and optimize the nutrition texture and quality of food compounds while reducing operating cost and waste The Second Edition contains new chapters and discussions on non thermal processes the mechanisms of heat transfer including conduction convection radiation and dielectric and microwave heating the kinetic parameters of food process operations freezing technology using illustrative examples recent breakthroughs in cryochemistry and cryobiology and more

**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

**Food Biochemistry and Food Processing** Leo M. L. Nollet, Fidel Toldrà, Soottawat Benjakul, Gopinadhan Paliyath, Y. H. Hui, 2012-07-10 Simpson food science and agricultural chemistry McGill U Canada brings together academics and industry professionals working in food biochemistry processing and safety around the world for this 45 chapter textbook aimed at food scientists researchers and technologists in the food industry and faculty and students in food science technology and engineering It combines the areas of food biochemistry and food processing to help them rationalize and develop more effective strategies to produce and preserve food It covers the essential principles of food biochemistry enzymology and food processing then the biochemistry of meat poultry seafoods milk fruits vegetables cereals and fermented foods and food microbiology and safety Along with updates to several chapters

this edition has been revised to incorporate safety considerations and the chemical changes induced by processing in the biomolecules of food in each chapter It includes a new section on health and functional foods and 10 new chapters on topics like thermally and minimally processed foods separation technology and allergens **Genetic Variation in Taste**

**Sensitivity** John Prescott, Beverly J. Tepper, 2004-02-10 Featuring results presented at the Sensitivity to PROP 6 n propylthiouracil symposium held as a satellite to the European Chemosensory Research Organisation conference in Erlangen Germany this volume s field shaping selections review all sides of PROP sensitivity measurement from its descriptive worth with regard to sensory experiences individual taste perceptions and food choices to its predictive power in the nutrition and public health arenas Written by recognized names from industry and academia Genetic Variation in Taste Sensitivity is ideal for taste olfaction and flavor chemists and scientists sensory evaluation chemists and scientists and nutritionists

*Fermented Foods, Part I* Didier Montet, Ramesh C. Ray, 2016-04-19 Traditional fermented foods are not only the staple food for most of developing countries but also the key healthy food for developed countries As the healthy functions of these foods are gradually discovered more high throughput biotechnologies are being used to promote the fermented food industries As a result the microorganisms process bioc *Surimi and Surimi Seafood* Jae W. Park, 2005-03-29 Written by internationally recognized experts Surimi and Surimi Seafood Second Edition provides a wealth of up to the minute information on all aspects of the production of surimi and surimi seafood To accommodate the fast paced surimi and surimi seafood industry this revised and updated edition has been expanded to include five new chapters M *Flour and Breads and their Fortification in Health and Disease Prevention* Victor R Preedy, Ronald Ross Watson, Vinood B. Patel, 2011-02-17 Bread and flour based foods are an important part of the diet for millions of people worldwide Their complex nature provides energy protein minerals and many other macro and micronutrients However consideration must be taken of three major aspects related to flour and bread The first is that not all cultures consume bread made from wheat flour There are literally dozens of flour types each with their distinctive heritage cultural roles and nutritive contents Second not all flours are used to make leavened bread in the traditional i e Western loaf form There are many different ways that flours are used in the production of staple foods Third flour and breads provide a suitable means for fortification either to add components that are removed in the milling and purification process or to add components that will increase palatability or promote health and reduce disease per se Flour and Breads and their Fortification in Health and Disease Prevention provides a single volume reference to the healthful benefits of a variety of flours and flour products and guides the reader in identifying options and opportunities for improving health through flour and fortified flour products Examines those flour and bread related agents that affect metabolism and other health related conditions Explores the impact of compositional differences between flours including differences based on country of origin and processing technique Includes methods for analysis of flours and bread related compounds in other foods

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web limiting reactant theoretical and percentage yields key  $4\text{KO}_2 + 2\text{H}_2\text{O} \rightarrow 4\text{KOH} + 3\text{O}_2$  g if a reaction vessel contains 0 mol  $\text{KO}_2$  and 0 mol  $\text{H}_2\text{O}$  what is the limiting reactant

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web start with 8.3 mole  $\text{H}_2\text{S}$  and multiply it with 2 mole  $\text{H}_2\text{O}$  over 2 mole  $\text{H}_2\text{S}$  from the equation  $8.3\text{ mole H}_2\text{S} \times \frac{2\text{ mole H}_2\text{O}}{2\text{ mole H}_2\text{S}} \times 18\text{g H}_2\text{O} = 149.4\text{g H}_2\text{O}$  is your theoretical yield so percent yield  $\frac{137.1\text{g H}_2\text{O}}{149.4\text{g H}_2\text{O}} \times 100 = 91.77\%$  problems 6-8 are similar to problem 5

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web 1 csun.edu/hcchm001/introchemhandouts.html limiting reagents theoretical actual and percent yields example of a limiting reagent problem how many grams of  $\text{NH}_3$  can be produced theoretically from the reaction of 5.0 g of  $\text{N}$  what is the limiting reagent if 8.52 g are actually formed what is the

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web percent yield is a measure of the efficiency of the experimental design  $\text{yield} = \frac{\text{mass of product obtained}}{\text{calculated mass of the product expected}} \times 100$  in this reaction a yield 80 is anticipated

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web a write a balanced equation for the reaction  $\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3$  b determine the theoretical yield of  $\text{Al}_2\text{O}_3$  160.0 g Al  $\times \frac{1 \text{ mol Al}}{27 \text{ g Al}} \times \frac{2 \text{ mol Al}_2\text{O}_3}{4 \text{ mol Al}} \times 101.96 \text{ g/mol} = 160.0 \text{ g}$  c determine the percent yield  $\frac{101.96 \text{ g}}{160.0 \text{ g}} \times 100 = 63.7\%$

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web 7 Na  $2\text{C}_2\text{O}_4$  is the limiting reactant percent yield 86.6% only four molecules can be made 9 this amount cannot be weighted by ordinary balances and is worthless 10 nitrogen is the limiting reagent 11 yes methane is the limiting reagent 12 C is the limiting reagent 4.33 g of H<sub>2</sub> are left over 13

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web the percent yield is calculated as follows  $\text{percent yield} = \frac{\text{actual yield}}{\text{theoretical yield}} \times 100$  based on this definition we would expect a percent yield

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80 g  $\text{I}_2\text{O}_5$  1 mol  $\text{I}_2\text{O}_5$  1 mol  $\text{I}_2$   $\times$  1 333.8 g  $\text{I}_2\text{O}_5$  1 mol  $\text{I}_2\text{O}_5$  28 g  $\text{CO}$  1 mol  $\text{CO}$

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