

# Crystallization Processes in Fats and Lipid Systems



edited by  
**Nissim Garti**  
**Kiyotaka Sato**

# Crystallization Processes In Fats And Lipid Systems

**Frank D. Gunstone, John L. Harwood**



## **Crystallization Processes In Fats And Lipid Systems:**

*Crystallization Processes in Fats and Lipid Systems* Nissim Garti, Kiyotaka Sato, 2001-07-20 An exploration of new and emerging techniques processes and applications in the behaviour crystallization and polymorphic transformations of fats and oils It presents research and information on advanced analytical tools computer modelling molecular structures mixing behaviour and interactions with seeding materials and surfactants The con

**Fats in Food Technology** Kanés K. Rajah, 2014-02-07 Fats are present in some form in the vast majority of processed foods we consume as well as in many natural products Changes in consumer behaviour centered around an increased emphasis on healthy food consumption mean that it is more important than ever for food scientists to understand the properties roles and behaviours that fats play in food and in diets *Fats in Food Technology* Second Edition is an in depth examination of the roles and behaviours of fats in food technology and the benefits that they impart to consumers It considers both fats that are naturally present in foods such as milk fat in cheese and fats that have been added to improve physical chemical and organoleptic properties like cocoa butter in chocolate Newly revised and updated the book contains useful information on the market issues that have driven change and the disciplines that have helped to regulate the trade and use of fats and oils in food technology Drawing on the recent literature as well as the personal R D experiences of the authors the book highlights those areas where potential efficiencies in processing and economy in the cost of raw materials can be made Issues concerning health diet and lifestyle are covered in dedicated chapters This book will be useful to anyone in industry and research establishments who has an interest in the technology of fat containing food products including scientists in the dairy spreads bakery confectionery and wider food industries as well those involved in the production of edible oils

*Modifying Lipids for Use in Food* F. D. Gunstone, 2006-09-28 Oils and fats have a major impact on the nutritional and sensory quality of many foods Food manufacturers must often modify lipid components or ingredients in food to achieve the right balance of physical chemical and nutritional properties *Modifying lipids for use in foods* reviews the range of lipids available techniques for their modification and how they can be used in food products Part one reviews vegetable animal marine and microbial sources of lipids and their structure The second part of the book discusses the range of techniques for modifying lipids such as hydrogenation fractionation and interesterification Finally part three considers the wide range of applications of modified lipids in such areas as dairy and bakery products confectionary and frying oils With its distinguished editor and international range of contributors *Modifying lipids for use in foods* is a standard reference for dairy and other manufacturers using modified lipids Reviews the range of lipids available Assesses techniques for modifying lipids such as fractionation and interesterification Considers the wide range of applications of modified lipids

**The Lipid Handbook with CD-ROM** Frank D. Gunstone, John L. Harwood, 2007-03-13 Extensively revised reorganized and expanded the third edition of the industry standard *The Lipid Handbook* reflects many of the changes in lipid science and technology that have occurred in the

last decade It places a stronger emphasis on the nutritional medical and agricultural aspects of lipids to reflect the increased interest and research in these areas in the past 10 years and beyond This edition features updated chapters and expanded coverage including additional compounds to its dictionary Written by experts from a diverse range of fields many of whom have contributed new research in the areas under review this handbook remains an essential reference

**Confectionery Science and Technology** Richard W. Hartel, Joachim H. von Elbe, Randy Hofberger, 2017-10-09 This book examines both the primary ingredients and the processing technology for making candies In the first section the chemistry structure and physical properties of the primary ingredients are described as are the characteristics of commercial ingredients The second section explores the processing steps for each of the major sugar confectionery groups while the third section covers chocolate and coatings The manner in which ingredients function together to provide the desired texture and sensory properties of the product is analyzed and chemical reactions and physical changes that occur during processing are examined Trouble shooting and common problems are also discussed in each section Designed as a complete reference and guide Confectionery Science and Technology provides personnel in industry with solutions to the problems concerning the manufacture of high quality confectionery products

*Development of Trans-free Lipid Systems and their Use in Food Products* Jorge F Toro-Vazquez, 2022-02-07 The physical properties associated with the saturated and trans fats obtained through partial hydrogenation of vegetable oils PHVOs provide the solid fat content melting and textural properties that consumers require in food products like butter margarines vegetable creams spreads and confectionary fats However saturated and trans fats increase low density lipoprotein while trans fats also lower high density lipoprotein serum levels These indicators increase the risk of developing cardiovascular disease type II diabetes stroke and have recently been associated with metabolic syndrome Consequently regulatory agencies worldwide have passed legislation restricting the addition of PHVOs and their derivatives i e shortenings to food products This has lead research groups worldwide to investigate different mechanisms to provide structural and physical properties to edible healthy unsaturated oils The overall objective is to achieve similar functional properties to those provided by PHVOs and shortenings to food products This book encompasses the work of leading researchers discussing from a scientific and technological perspective the latest and most innovative approaches to structure edible oils without the use of trans fats Additionally the authors discuss practical uses and technical limitations associated with the use of structured edible oils in different food systems Appealing to researchers and professionals working in lipid science food chemistry and fat metabolism it fills the gap in the literature for a book in this fast changing field

Phase Behavior of Model Lipid Systems Yuqing Zhou, 2004      □□□□□, 2002      Effect of Emulsifiers on the Crystallization Kinetics of Triglycerides and Cocoa Butter Daijing Wei, 2005      **Journal of Oil Palm Research**, 2019      **Air Cell Measurement in Dairy Foam Systems** Yi-Huang Chang, 2000      *Proceedings of 2010 National Seminar Palm Oil Milling, Refining, Environment, and Quality (POMREQ)*, 2010      *Fat Crystallization in Emulsions* Catherine Simoneau, 1990

*Food Colloids* Eric Dickinson, Martin E. Leser, 1980      *Palm Oil: Proceedings of food, lifestyle & health conference*, 2009  
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index      □□□□□□□□□□, 1998      *Journal American Chemical Society*, 2004      Advances in High Pressure Bioscience and  
Biotechnology Horst Ludwig, 1999-09-02 At present there is growing interest in high pressure bioscience and biotechnology  
The activities are nearly equally distributed between fundamental research and applications With original work on marine  
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