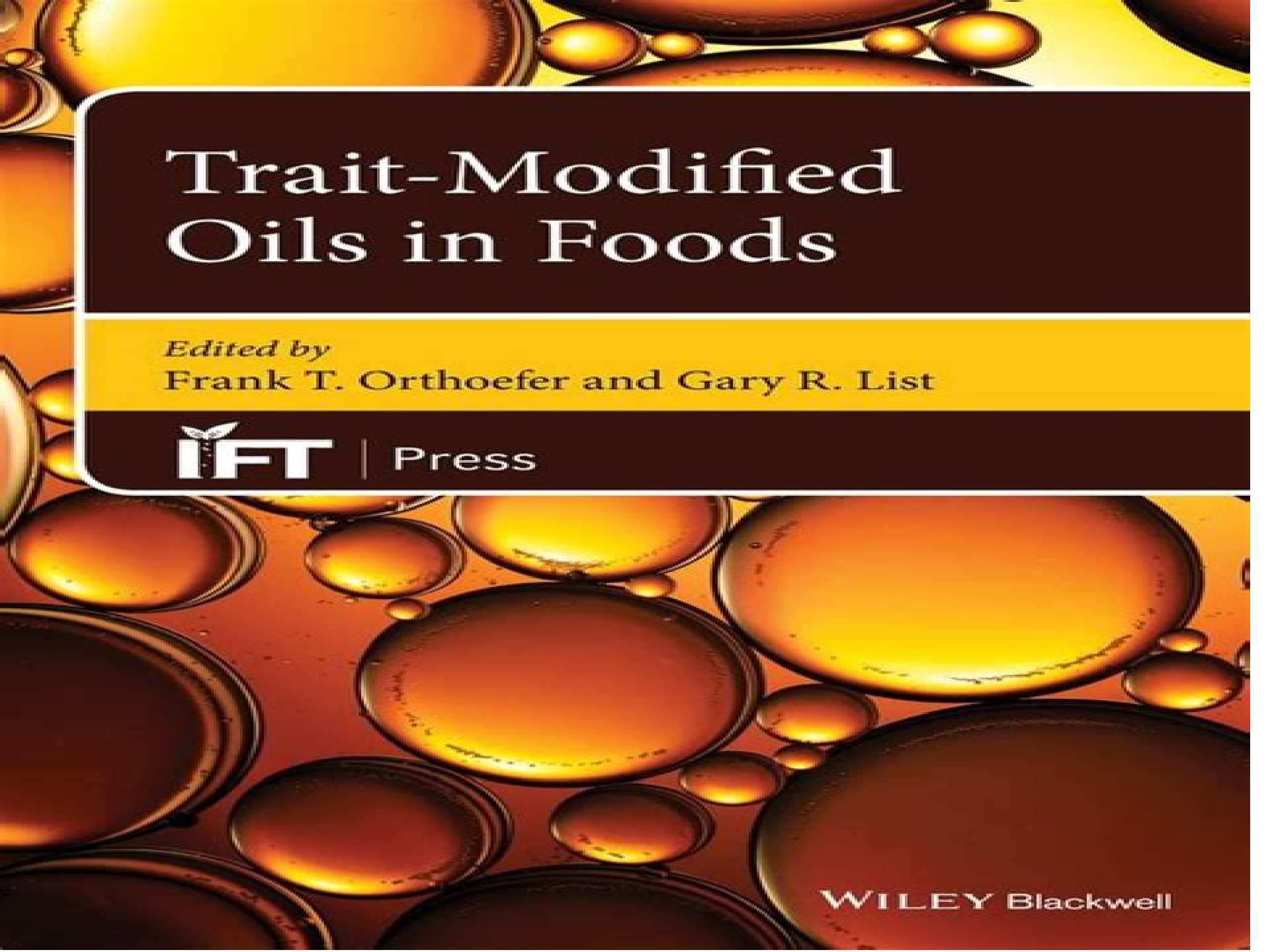


The background of the entire cover is a microscopic view of oil droplets, likely from a salad dressing, showing various sized spherical droplets with bright highlights and dark outlines, creating a textured, bubbly appearance in shades of orange, yellow, and brown.

Trait-Modified Oils in Foods

Edited by
Frank T. Orthoefer and Gary R. List

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Trait Modified Oils In Foods Institute Of Food Technologists Series:

Trait-Modified Oils in Foods Frank T. Orthoefer, Gary R. List, 2015-05-18 In recent years the food industry has made substantial advances in replacing partially hydrogenated oils high in trans fatty acids in foods. Trait modified oils were then developed to produce trans fat free low saturated functional oils. Trait modified Oils in Foods offers top line information on the sources, composition, performance, health, taste, and availability of modified next generation oils. Coverage extends to public policy, development, discussions of real world transition to healthy oils by food service and food processing industries, and the future of trait modified oils. The book provides solutions to food companies with the potential of improving the health benefits of foods through eliminating trans fats and reducing saturated fats from formulations. A landmark resource on modified next generation trait modified oils, this book is essential reading for oil processors, manufacturers, and producers, as well as any professional involved in food quality assurance and public health. Trait-modified Oils in Foods Frank T. Orthoefer, Gary R. List, 2015

Food Emulsions David Julian McClements, 2004-12-16 Food Emulsions: Principles, Practice, and Techniques, Second Edition introduces the fundamentals of emulsion science and demonstrates how this knowledge can be applied to better understand and control the appearance, stability, and texture of many common and important emulsion based foods. Revised and expanded to reflect recent developments, this *Modified Rice Bran Arabinoxylan* Sok Cheon Pak, Soo Liang Ooi, Peter S. Micalos, Mamdoo H. Ghoneum, 2023-01-08 This book presents the major therapeutic applications of modified rice bran arabinoxylan compound RBAC in cancer, as well as other chronic inflammatory diseases. Written by active researchers and clinicians in the field of RBAC, the chapters cover the basic science that defines the unique function of RBAC, as well as the clinical evidence derived through human studies. Particular focus is on recent findings from research over the past decades. This book is both practical and evidence based. It will be a core resource for researchers, students, and practitioners of nutrition and natural medicine, as well as be of value to all healthcare professionals with interest in integrative medicine.

Vegetable Oils in Food Technology Frank Gunstone, 2011-03-01 Our dietary intake comprises three macronutrients: protein, carbohydrate, and lipid, and a large but unknown number of micronutrients: vitamins, minerals, antioxidants, etc. Good health rests in part on an adequate and balanced supply of these components. This book is concerned with the major sources of lipids and the micronutrients that they contain. Now in an extensively updated second edition, the volume provides a source of concentrated and accessible information on the composition, properties, and food applications of the vegetable oils commonly used in the food industry. Chapters are devoted to each type of oil, and an introductory chapter by the Editor provides an overview of the current production and trade picture globally. The book includes coverage of the modifications of these oils that are commercially available by means of partial hydrogenation, fractionation, and seed breeding. The major food applications are linked wherever possible to the composition and properties of the oils. This new edition widens the range of oils covered, addresses issues related to trans fats reduction, and new composition data is included.

throughout The book is an essential resource for food scientists and technologists who use vegetable oils in food processing chemists and technologists working in oils and fats processing and analytical chemists and quality assurance personnel Praise for the first edition This excellent book consists of 337 pages in 11 chapters written by 13 experts from six countries the important vegetable oils are dealt with in great detail With obesity on all out lips this book also rightly defends itself and its content namely that all vegetable oils when used correctly and of course in moderation are indeed necessary to all of us Food Beverage Reporter Overall the book covers all of the major oils which the potential reader is likely to approach it for covers a wide range of topics from production through composition to nutritional aspects The volume is well indexed particularly for the individual subject oils and it is easy to find specific topics within its chapters Food Science and Technology This latest book edited by Professor Gunstone belongs to the kind of books where the reader rapidly knows it will bring him a wealth of updated information concentrated in one book The goal to serve as a rich source of data on the thirteen major oils and their important minor components has been attained There is a need for books of such quality European Journal of Lipid Science and Technology Marine Fisheries Review ,1987 **Bibliography of Agriculture** ,1990

Bibliography of Agriculture with Subject Index ,1993-07

Hand Book of Processed Functional Meat Products

Sajad A. Rather,F. A. Masoodi,2024-10-22 Functional food technology aims to boost consumer well being by providing health benefits beyond that of fundamental nutrition Meat and meat products have numerous disease preventing and health promoting benefits However the meat industry has faced many new challenges since the World Health Organization WHO studies suggesting that small increases in the risk of several cancers may be associated with high consumption of processed meat In addition consumers often associate meat with a negative health image This negative image of meat is mainly due to fat content such as saturated fatty acids and cholesterol and process induced toxicants like N nitroso compounds and polycyclic aromatic hydrocarbons PAHs and the alliance of these with chronic diseases In this context the functional food concept applied to meat processing has gained importance especially by reduction replacement of fat sodium nitrites reduction of process induced toxicants and addition of beneficial components such as probiotics and bioactive compounds Hand Book of Processed Functional Meat Products provides meat industry professionals with a step by step guide to post mortem muscle chemistry functional and cultured meat products design and development bioactive compounds reduction of carcinogenic compounds application of enzymes and nanotechnology innovation in sensory assessment authentication and marketing 3D printing in the development of meat based products and regulatory and consumer challenges in functional meat products This book differs from other publications on functional meat product processing in that it offers comprehensive coverage and in depth discussion of the most recent scientific and technological applications in functional meat products Many meat science and technology books available on the market describe meat chemistry properties and basic science with only a rudimentary understanding of meat processing functional meat products development and

applications Therefore this work will be helpful for food industry professionals policy makers researchers students teachers and nutritionists and dieticians for a complete and up to date overview of functional meats processing and quality evaluation

Functional Coatings for Food Packaging Applications Stefano Farris ,Jari Vartiainen,2021-01-20 The food packaging industry is experiencing one of the most relevant revolutions associated with the transition from fossil based polymers to new materials of renewable origin However high production costs low performance and ethical issues still hinder the market penetration of bioplastics Recently coating technology was proposed as an additional strategy for achieving a more rational use of the materials used within the food packaging sector According to the packaging optimization concept the use of multifunctional thin layers would enable the replacement of multi layer and heavy structures thus reducing the upstream amount of packaging materials while maintaining or even improving the functional properties of the final package to pursue the goal of overall shelf life extension Concurrently the increasing requirements among consumers for convenience smaller package sizes and for minimally processed fresh and healthy foods have necessitated the design of highly sophisticated and engineered coatings To this end new chemical pathways new raw materials e g biopolymers and non conventional deposition technologies have been used Nanotechnology in particular paved the way for the development of new architectures and never before seen patterns that eventually yielded nanostructured and nanocomposite coatings with outstanding performance This book covers the most recent advances in the coating technology applied to the food packaging sector with special emphasis on active coatings and barrier coatings intended for the shelf life extension of perishable foods

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