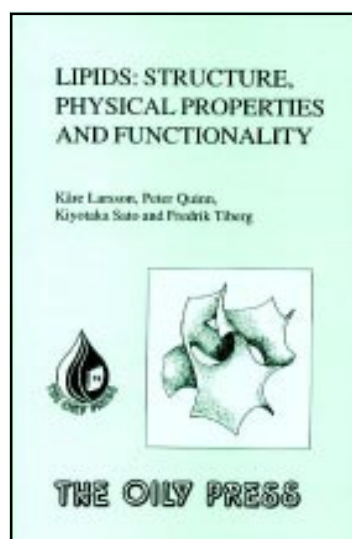


The Oily Press presents a new version of the best-selling book on the physical aspects of lipids, now written by four leading experts.....



LIPIDS: STRUCTURE, PHYSICAL PROPERTIES AND FUNCTIONALITY

Written by Kåre Larsson, Peter Quinn, Kiyotaka Sato and Fredrik Tiberg

February 2006. ISBN-13: 978-0-9531949-9-5 (ISBN-10: 0-9531949-9-X), Hardback, 234 x 156 mm, 280 pages, 14 tables, 119 figures, 584 references. Volume 19 in The Oily Press Lipid Library. Price £85 or US\$174.

In *Lipids: Structure, Physical Properties and Functionality*, Professors Kåre Larsson (Camurus Lipid Research Foundation, Lund, Sweden), Peter Quinn (King's College London, UK), Kiyotaka Sato (Hiroshima University, Japan) and Fredrik Tiberg (Camurus Ab, Lund, Sweden) have provided an up-to-date description of the diversity of lipid molecular arrangements in different physical states as a basis for the understanding of lipid functionality in biological and technical systems. Lipids are components of many complex systems, some of which are natural in origin such as the cell membranes of living organisms, and others created by human intervention such as food emulsions. Scientists and technologists working on complex systems containing lipids need to relate composition and structure to behaviour, whether this is in the formulation of food products, development of drugs and drug delivery systems, study of living cells, or creation of new cosmetics, to name a few examples.

Contents list

- Basic concepts
 - Solid-state behaviour of polymorphic fats and fatty acids
 - Liquid-crystalline lipid-water phases
 - The liquid state
 - Lipids at the air-water interface - monolayers and multilayers in surface films, bubbles and foams
 - Dispersions of lipid-water phases
 - Interaction of lipids with proteins and polypeptides
 - Emulsions
 - Lipids of biological membranes
 - Lipid barriers at the environment-body interface
 - Drug delivery
 - Foods
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Background.....

This book was originally planned as a new edition of Kåre Larsson's popular book *Lipids: Molecular Organization, Physical Functions and Technical Applications* published by The Oily Press in 1994. However, the subject area had to be expanded to such an extent that one author could no longer cover it. Instead of resorting to the usual edited book with each chapter written by a different author, the three well-known scientists named above were invited to act as co-authors with Kåre Larsson. As a result, *Lipids: Structure, Physical Properties and Functionality* is not a second edition but a new book with a new ISBN number.



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