

Handbook Of Lipid Bilayers Second Edition

Handbook of Lipid Bilayers, Second Edition Handbook of Lipid Bilayers Heterogeneities in Lipid Bilayers, Regulation, Structure, and Function Polymer-supported Biomimetic Lipid Bilayers on Solid Substrates Interrogating Molecular Scale Organization in Planar Lipid Bilayers and Liposomes Harper's Illustrated Biochemistry, Thirty-Second Edition In Situ Formation and Characterization of Polymer-supported Lipid Bilayers Interactions of Transmembrane Domains with Lipid Bilayers in Phospholipid Bicelles Lifting-up of Supported Lipid Bilayers on Layer-by-layer Polyion/alkylthiol Cushions The Mechanism of Lipid Bilayer Disruption by the Human Antimicrobial Peptide, LL-37 Proceedings of the Second UCLA Conference on Membranes Membrane Biophysics: As Viewed from Experimental Bilayer Lipid Membranes Insect Poisons, Allergens, and Other Invertebrate Venoms The Journal of Chemical Physics Encyclopedia of Molecular Biology and Molecular Medicine: Mass spectrometry high speed DNA fragment sizing to plasma lipoproteins Harper's Illustrated Biochemistry Thirty-First Edition Annals of the New York Academy of Sciences Alcohol and the Cell Planar Lipid Bilayers Proceedings of the National Academy of Sciences of the United States of America Derek Marsh Derek Marsh Timothy Vernon Ratto William Wei Shen Monika J. Dominska Peter J. Kennelly Jeffrey Christian Munro Kerney Jebrell Glover Chen Ma Katherine Anne Henzler Wildman H.T. Tien + Anthony T. Tu Robert Allen Meyers Victor W. Rodwell Thomas Lincoln Casey Emanuel Rubin Wolfgang Hanke

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now in its second edition the handbook of lipid bilayers is a groundbreaking work that remains the field's definitive text and only comprehensive source for primary physicochemical data relating to phospholipid bilayers along with basic thermodynamic data coverage includes both dynamic and structural properties of phospholipid bilayers it is an indispensable reference for users of bilayer model membranes and liposome delivery systems and for those interested in the biophysics of membrane structure each chapter in the second edition contains considerable amounts of explanation and elaboration including in many cases extensive analysis of structural connections between the data new in the second edition chapters on crystal structures of phospholipids include new structures and more comprehensive data on bond lengths bond angles and torsion angles and all coordinates are cartesian wide angle data is indexed whenever possible to characterize chain packing modes in gel and crystalline lamellar phases low angle data are analyzed in terms of the lipid and water thicknesses headgroup separations in electron density profiles for phospholipids are included and a separate section is devoted to the in depth analysis of electron density profiles that provides the most detailed structural information on fluid lamellar phases phase diagrams of phospholipid mixtures are vastly expanded and have been redrawn in standardized format to aid intercomparison cholesterol including ternary systems is now featured new sections on titration calorimetry and much extended data on the temperature dependence of transfer rates the greatly expanded chapter on bilayer bilayer interactions features new and detailed information on the components of interbilayer pressures

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this book summarizes the current status of research on bilayer lipid membranes planar lipid bilayers and spherical liposomes in addition to describing the properties of lipid bilayers and examining biomembrane phenomena the book has two other objectives the first is to present practical methods for the formation and study of lipid bilayers with either aqueous or metal lipid bilayer interfaces the second aim is to treat planar lipid bilayers as a new type of interfacial adsorption phenomena the first nine chapters cover properties of biomembranes basic principles of membrane biophysics transport electrochemistry physiology bioenergetics and photobiology chapter 10 presents the following topics lipid bilayers in medicine supported lipid bilayers as sensors a short discussion of liposomes and solar energy transduction via semiconductor septum photovoltaic cells based on natural photosynthesis

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