

Handbook Of Lipid Bilayers Second Edition

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Handbook of Lipid Bilayers Atomic Force Microscopy For Biologists (2nd Edition)
Harper's Illustrated Biochemistry, Thirty-Second Edition
Phospholipid Bilayers
Introduction to Polymer Chemistry, Second Edition
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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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atomic force microscopy afm is part of a range of emerging microscopic methods for biologists which offer the magnification range of both the light and electron microscope but allow imaging under the natural conditions usually associated with the light microscope to biologists afm offers the prospect of high resolution images of biological material images of molecules and their interactions even under physiological conditions and the study of molecular processes in living systems this book provides a realistic appreciation of the advantages and limitations of the technique and the present and future potential for improving the understanding of biological systems the second edition of this bestseller has been updated to describe the latest developments in this exciting field including a brand new chapter on force spectroscopy the dramatic developments of afm over the past ten years from a simple imaging tool to the multi faceted nano manipulating technique that it is today are conveyed in a lively and informative narrative which provides essential reading for students and experienced researchers alike a

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introduces the principles underlying the fundamental physical properties of phospholipid bilayer membranes and summarizes current research in the field and directions for research covers the various methods of approach summarizes a range of specific models and gives detailed accounts of those models most useful for future work introduces the subject in a way that is accessible to those with little background in the subject while presenting information at the forefront of current knowledge concerning it

with an emphasis on the environment and green chemistry and materials this second edition offers detailed coverage of natural and synthetic giant molecules inorganic and organic polymers elastomers adhesives coatings fibers plastics ceramics and more

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a textbook that integrates molecular biology biochemistry and cell biology into a unified course of study reflecting the shift in emphasis of molecular biology from a concentration on genes for their own sake to the application of molecular genetic studies to all areas of cell biology and bioche

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