

Handbook Of Lipid Bilayers Second Edition

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Textbook Of Structural Biology (Second Edition)
Handbook of Lipid Bilayers
Surfactants in Cosmetics, Second Edition,
The Lipid Handbook, Second Edition
First Aid for the Basic Sciences, General Principles, Second Edition
Harper's Illustrated Biochemistry, Thirty-Second Edition
Instructor's Resource Manual to Accompany Raven and Johnson Biology, 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

this book provides a comprehensive coverage of the basic principles of structural biology as well as an up to date summary of some main directions of research in the field the relationship between structure and function is described in detail for soluble proteins membrane proteins membranes and nucleic acids there are several books covering protein structure and function but none that give a complete picture including nucleic acids lipids membranes and carbohydrates all being of central importance in structural biology the book covers state of the art research in various areas it is unique for its breadth of coverage by experts in the fields the book is richly illustrated with more than 400 color figures to highlight the wide range of structures

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second edition provides a thorough up to date treatment of the fundamental behavior of surface active agents in solutions their interaction with biological structures from proteins and membranes to the stratum corneum and epidermis and their performance in formulations such as shampoos dentifrice aerosols and skin cleansers

a great deal of research has been carried out on this important class of compounds in the last ten years to ensure that scientists are kept up to date the editors of the first edition of the lipid handbook have completely reviewed and extensively revised their highly successful original work the lipid handbook second edition is an indispensable resource for anyone working with oils fats and related substances

the essential companion for your first two years of medical school first aid for the basic sciences general principles 2e provides you with a solid understanding of the basic science principles with which all medical students must be familiar the second edition has been completely revised to feature a more student friendly and approachable text an updated high yield rapid review section new images and more delivers comprehensive single source coverage of the entire first year of medical school includes important background material

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this all in one study guide delivers all the review and practice you need to master biology fundamentals whether you re starting from scratch or refreshing your biology skills this accessible guide will help you develop a better understanding of biology offering concise coverage of all biology basics the book is packed with clear easy to grasp review material hundreds of practice exercises increase your grasp of biology concepts and help you retain what you have learned the book features a brand new chapter pulling it all together to help you consolidate what you ve learned throughout the book new research moment boxes use simple lab or field based experiments to help you apply biology lessons to the real world concise review material that clearly explains biology fundamentals hundreds of practice exercises to build your problem solving confidence

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

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