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Recent research has provided an abundance of new information on membrane biochemistry. Now more than ever, it is essential to update our current understanding of membrane structure and function to fully appreciate and apply these findings. Completely revised and updated to reflect advances in the field, *The Structure of Biological Membranes, Second Edition* focuses on lipids and the lipid bilayer, as well as on membrane protein structure and function, and includes a chapter on transport. It provides an integrated view of membranes as functioning units. This new edition incorporates recent advances in membrane protein structure, membrane rafts and membrane fusion. The roles of cholesterol in the biology of cells, the structures of G-protein coupled receptors, membrane lipids as modulators of membrane-bound enzymes, and viral fusion mechanisms are presented and analyzed in depth. Updating our knowledge of biological membrane structure, this second edition serves as a valuable resource for structural biologists, biophysicists, cell biologists, biochemists, and researchers involved in the pharmaceutical industry.