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Sommario/riassunto	This book reviews recent advances regarding the biochemical and biophysical properties of membrane proteins and their applications in biomedicine. Divided into two thematic parts, this second volume addresses proteins' formation, signaling and malfunctions. It covers a number of important membrane proteins including receptors, cell adhesion molecules, single-transmembrane proteins and viral membrane proteins, and discusses their structures, functions, related diseases, and roles in drug discovery in detail. In turn, the book elucidates the lifecycle of membrane proteins, including their synthesis and facilitated folding process, as well as QC procedures for their production. Additional topics include fundamental concepts, the latest findings, and critical puzzles yet to be solved. Given its scope, the book will appeal to a broad readership in the field of membrane structural and functional biology. Junior scientists can use it as an introduction to the field, while advanced scientists will find a broader view of the field

beyond their area of specialization. .