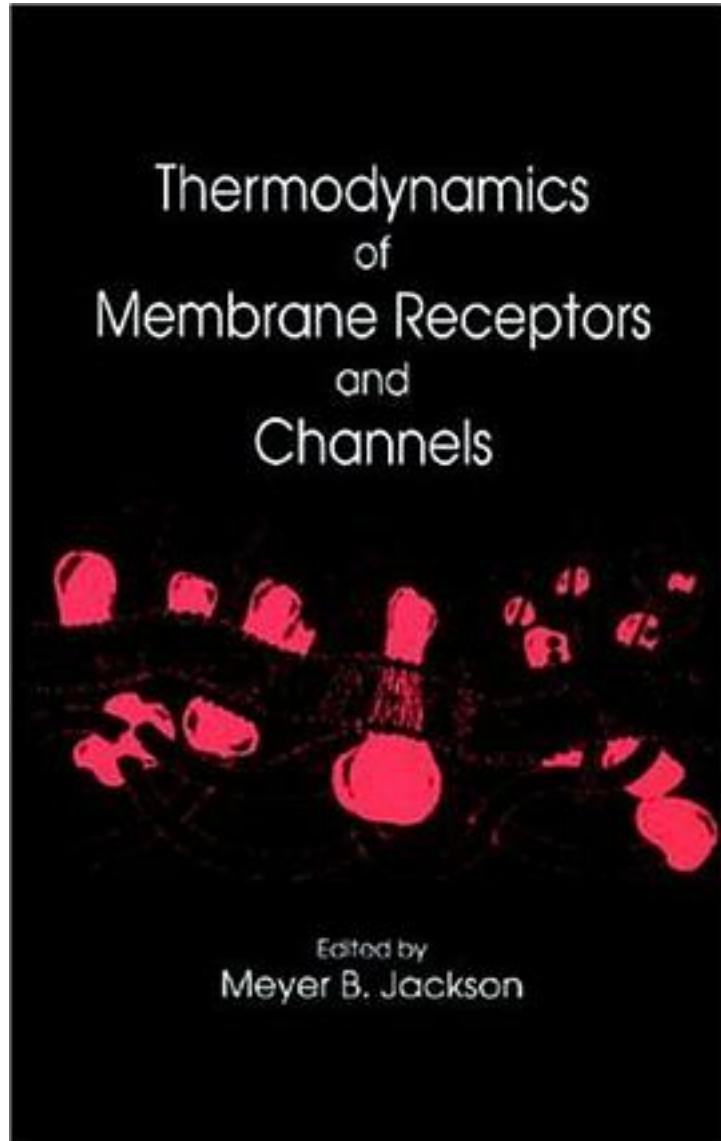


Thermodynamics of Membrane Receptors and Channels



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著者:Meyer B. Jackson

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Thermodynamics of Membrane Receptors and Channels synthesizes a wealth of new information regarding the biophysics of membrane proteins. New insights provided by molecular genetics, single channel recording, and high resolution structural techniques are discussed from a conceptual perspective. Basic theoretical topics are introduced, developed, and then extensively illustrated with recent results from the literature or data from the authors' own laboratories. Theoretical and experimental information is incorporated into in-depth discussions of ion permeation mechanisms, ion channel and receptor conformational changes, aggregate activity of complexes of lipids and proteins, and how coupling is achieved between different energy modes in the many transduction systems residing in biomembranes. Thermodynamics of Membrane Receptors and Channels will be valuable both as a learning aid and a reference for biophysicists, neuroscientists, cell biologists, physiologists, and other researchers investigating any aspects of biomembranes.

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