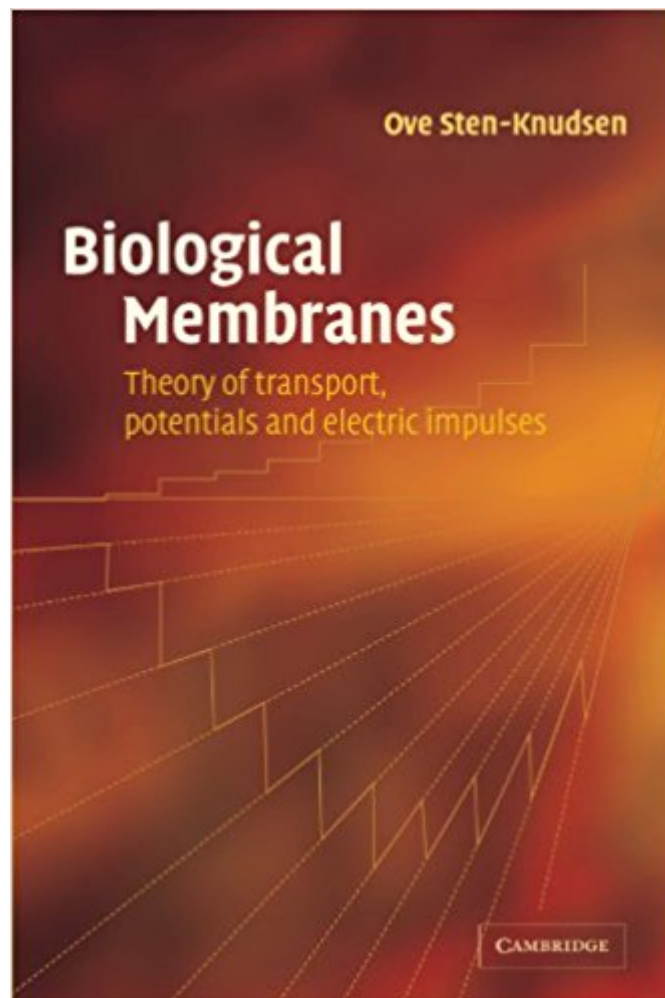




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Biological Membranes: Theory Of Transport, Potentials And Electric Impulses



Synopsis

This graduate text, suitable for students in physiology and biophysics, and medical students specializing in neurophysiology and related fields, is a comprehensive discussion of biological mass transfer and bioelectrical phenomena. Emphasis is given to the applicability of physics, physical chemistry and mathematics to the quantitative analysis of biological processes, with all the necessary mathematical grounding provided in Chapter 1. This book guides the student through four key stages of quantitative analysis, which are central to the understanding of cell membrane functions.

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This graduate text, suitable for students in physiology and biophysics and medical students specialising in neurophysiology and related fields, provides a comprehensive discussion of biological mass transfer and bioelectrical phenomena. Emphasis has been given to the applicability of physics, physical chemistry and mathematics to the quantitative analysis of biological processes, with all the necessary mathematical grounding provided in Chapter 1. This book guides the student through the key stages needed for the formulation of biological models and interpretation of mathematical solutions, central to the understanding of cell membrane functions.

Ove Sten-Knudsen is Professor Emeritus in Biophysics at Copenhagen University, Denmark, and a leading authority on muscle and membrane biophysics. He has previously carried out research in the Departments of Biophysics at The Johns Hopkins University, Baltimore and University College

London. Ove Sten-Knudsen is a Fellow of the Royal Danish Science Society and the Physiological Society of London.

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