



Mathematical Physiology: II: Systems Physiology (Interdisciplinary Applied Mathematics)

James Keener, James Sneyd

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Divided into two volumes, the book begins with a pedagogical presentation of some of the basic theory, with chapters on biochemical reactions, diffusion, excitability, wave propagation and cellular homeostasis. The second, more extensive part discusses particular physiological systems, with chapters on calcium dynamics, bursting oscillations and secretion, cardiac cells, muscles, intercellular communication, the circulatory system, the immune system, wound healing, the respiratory system, the visual system, hormone physiology, renal physiology, digestion, the visual system and hearing.

New chapters on Calcium Dynamics, Neuroendocrine Cells and Regulation of Cell Function have been included.

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