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The Squid Giant AxonIonic Currents Across an Axon Membrane Under Voltage Clamp; The Gated Ion Channel Model; Membrane Potential and Peak Ionic Conductance; Kinetics of the Change in Ionic Conductance Following a Step Depolarization; Sodium Inactivation; The Temporal Behavior of Sodium and Potassium Conductance; Gating Currents; Summary; 8 Synaptic Transmission at the Neuromuscular Junction; Chemical and Electrical Synapses; The Neuromuscular Junction as a Model Chemical Synapse; Transmission at a Chemical Synapse; Presynaptic Action Potential and Acetylcholine Release
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Sommario/riassunto

Cellular Physiology of Nerve and Muscle, Fourth Edition offers a state of the art introduction to the basic physical, electrical and chemical principles central to the function of nerve and muscle cells. The text begins with an overview of the origin of electrical membrane potential, then clearly illustrates the cellular physiology of nerve cells and muscle cells. Throughout, this new edition simplifies difficult concepts with accessible models and straightforward descriptions of experimental results.An all-new introduction to electrical signaling in the nervous system.

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