



Electrophysiological Methods: Physical Techniques in Biological Research

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Physical Techniques in Biological Research Volume VI: Electrophysiological Methods presents the analytical methods and experimental techniques in electrophysiological research. It discusses the handling and analysis of information by computer methods. It addresses the methods of analysis of waveforms, signal characterization and detection.

Some of the topics covered in the book are the fundamentals of digital and analog computers; analysis of complex waveforms; operational amplifiers; signal processing and parameter estimation; the core conductor model; voltage clamp techniques; cable theory; automatic computation equipment; and electric accounting machinery. The wave shape generation are covered. The characterization of systematic functions is discussed. The text describes the nerve containing axial wire. A study of the internal thin and outer diffuse electrodes is presented. A chapter is devoted to the simple one dimensional model. Another section focuses on the cylindrical model with radial symmetry and accuracy of membrane potential measurement. The book can provide useful information to experimenters, students, and researchers.

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