

Dendrites

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20470548&lokasi=lokal>

Abstrak

Dendrites are complex neuronal structures that receive and integrate synaptic input from other nerve cells. They therefore play a critical role in brain function. Although dendrites were discovered over a century ago, due to the development of powerful new techniques there has been a dramatic resurgence of interest in the properties and function of these beautiful structures. This is the first book to be devoted exclusively to dendrites. It contains a comprehensive survey of the current state of dendritic research across a wide range of topics, from dendritic morphology, evolution, development, and plasticity through to the electrical, biochemical, and computational properties of dendrites, and finally to the key role of dendrites in brain disease. The third edition has been thoroughly revised, with each chapter updated or completely rewritten by leading experts, plus the addition of a number of new chapters. Dendrites should be of interest to researchers and students in neuroscience and related fields, as well as to anyone interested in how the brain works.