



# **Brain Function and Oscillations: Volume I: Brain Oscillations. Principles and Approaches (Springer Series in Synergetics)**

*Erol Basar*

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## **Brain Function and Oscillations: Volume I: Brain Oscillations. Principles and Approaches (Springer Series in Synergetics) Erol Basar**

by W. J. Freeman These two volumes on "Brain Oscillations" appear at a most opportune time. As the "Decade of the Brain" draws to its close, brain science is coming to terms with its ultimate problem: understanding the mechanisms by which the immense number of neurons in the human brain interact to produce the higher cognitive functions. The ideas, concepts, methods, interpretations and examples, which are presented here in voluminous detail by a world-class authority in electrophysiology, summarize the intellectual equipment that will be required to construct satisfactory solutions to the problem. Neuroscience is ripe for change. The last revolution of ideas took place in the middle of the century now ending, when the field took a sharp turn into a novel direction. During the preceding five decades the prevailing view, carried forward from the 19th century, was that neurons are the carriers of nerve energy, either in chemical or electrical forms (Freeman, 1995). That point of view was enormously productive in terms of coming to understand the chemical basis for synaptic transmission, the electrochemistry of the action potential, the ionic mechanisms of membrane currents and gates, the functional neuroanatomy that underlies the hierarchy of reflexes, and the neural fields and their resonances that support Gestalt phenomena. No better testimony can be given of the power of the applications of this approach than to point out that it provides the scientific basis for contemporary neurology, neuropsychiatry, and brain imaging.

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