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Integrative Brain Function. Neurophysiology and  
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*Erol Basar*

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# Brain Function and Oscillations: Volume II: Integrative Brain Function. Neurophysiology and Cognitive Processes: 2 (Springer Series in Synergetics)

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Neuroscience is ripe for a paradigm change as Freeman and Mountcastle describe. **Brain Oscillations** provide an important key to this change. In this book the functional importance of the brain's multiple oscillations is treated with an integrative scope. According to the author, neurophysiology and cognition demand integrative approaches similar to those of Galilei and Newton in physics and of Darwin in biology. Not only the human brain but also lower brains and ganglia of invertebrates are treated with electrophysical methods. Experiments on sensory registration, perception, movement, and cognitive processes related to attention, learning, and memory are described. A synopsis on brain functions leads to a new *neuron assemblies doctrine*, extending the concept of Sherrington, and new trends in this field. The book will appeal to scientists and graduate students.

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