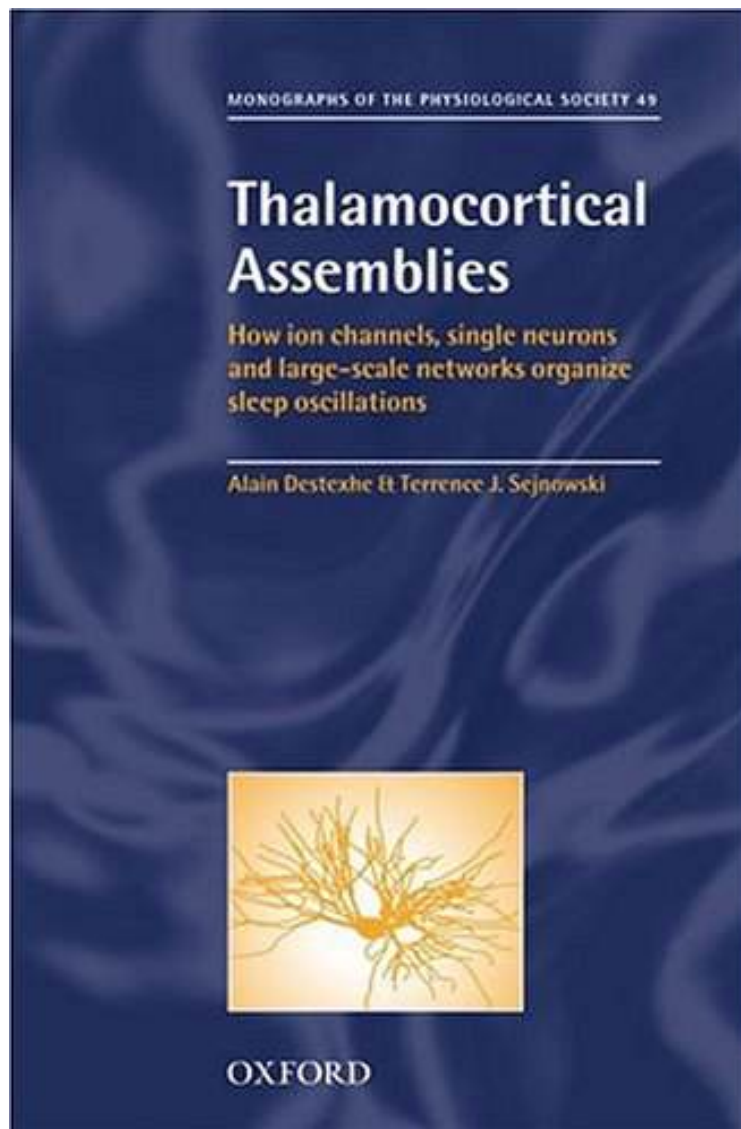


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Thalamocortical Assemblies: How Ion Channels, Single Neurons and Large-Scale Networks Organize Sleep Oscillations:

3 of 3 review helpful excellent overview but for specialists By Karl Hook This book presents a very complete overview of the physiology of thalamic neurons It covers both single neuron and circuit properties It explores the mechanisms underlying normal and pathological oscillations in which the thalamus is involved I liked very much the last chapter which speculates about the role of oscillations in memory consolidati During sleep the mammalian brain generates an orderly progression of low frequency oscillations The nature of these oscillations changes as the brain moves from sleep onset into deep sleep Although readily measured and recorded the underlying neural mechanisms involved and the purpose of these oscillations have remained unclear However as we learn more about the properties of neurons in the thalamus and cerebral cortex and their interactions it has become possi About the Author Alain Destexhe is at Unite de Neurosciences Integratives et Computationelles CNRS Gif sur Yvette France Terrence Sejnowski is at Computational Neurobiology Laboratory Howard Hughes Medical Institute Salk Institute La Jolla USA

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