



Brain Dynamics: An Introduction to Models and Simulations (Springer Series in Synergetics)

Hermann Haken

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(preliminary) **Brain Dynamics** is an introduction for graduate students and nonspecialists from various backgrounds to the field of mathematical and computational neurosciences.

The approach in this book is through pulsed-coupled neural networks, with at their core the lighthouse and integrate-and-fire models, which allow for the highly flexible modelling of realistic synaptic activity, synchronization and spatio-temporal pattern formation. As a more advanced topic, pulse-averaged equations and their application to movement coordination are discussed. The book closes with a short analysis of models versus the real neurophysiological system. The second edition has been thoroughly updated and augmented by an extensive chapter that discusses the interplay between pattern recognition and synchronization. Further, to enhance the usefulness as textbook and for self-study, the detailed solutions of all XX exercises throughout the text have been added.

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