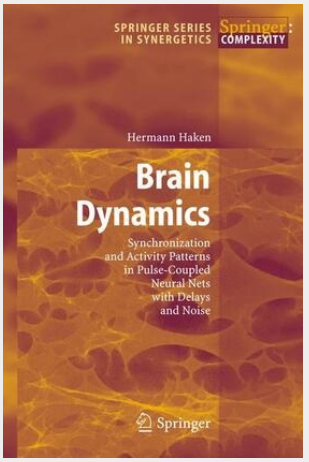
Haken

Brain Dynamics

Synchronization and Activity Patterns in Pulse-Coupled Neural Nets with Delays and Noise

This book addresses a large variety of models in mathematical and computational neuroscience. It is written for the experts as well as for graduate students wishing to enter this fascinating field of research. The author studies the behaviour of large neural networks composed of many neurons coupled by spike trains. An analysis of phase locking via sinusoidal couplings leading to various kinds of movement coordination is included.



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