



An Introduction to the Mathematics of Neurons: Modeling in the Frequency Domain (Hardback)

By Frank C. Hoppensteadt

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2006. Hardback. Condition: New. 2nd Revised edition. Language: English . Brand New Book ***** Print on Demand *****.This book describes the signal processing aspects of neural networks. It begins with a presentation of the necessary background material in electronic circuits, mathematical modeling and analysis, signal processing, and neurosciences, and then proceeds to applications. These applications include small networks of neurons, such as those used in control of warm-up and flight in moths and control of respiration during exercise in humans. Next, a theory of mnemonic surfaces is developed and studied and material on pattern formation and cellular automata is presented. Finally, large networks are studied, such as the thalamus-reticular complex circuit, believed to be involved in focusing attention, and the development of connections in the visual cortex. Additional material is also provided about nonlinear wave propagation in networks. This book will serve as an excellent text for advanced undergraduates and graduates in the physical sciences, mathematics, engineering, medicine and life sciences.



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