



From Computer to Brain

By Lytton, W. W.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Foundations of Computational Neuroscience | Biology undergraduates, medical students and life-science graduate students often have limited mathematical skills. Similarly, physics, math and engineering students have little patience for the detailed facts that make up much of biological knowledge. Teaching computational neuroscience as an integrated discipline requires that both groups be brought forward onto common ground. This book does this by making ancillary material available in an appendix and providing basic explanations without becoming bogged down in unnecessary details. The book will be suitable for undergraduates and beginning graduate students taking a computational neuroscience course and also to anyone with an interest in the uses of the computer in modeling the nervous system. | From the contents: - Introduction - I. Perspectives: Computational Neuroscience and You; Basic Neuroscience - II. Computers: Computer Soul of an Old Machine - III. Cybernetics: Concept Neurons; Neural Coding; Our Friend the Limulus; Supervised Learning: The Delta Rule and Back-Propagation; Associative Memory Networks - IV. From Artificial to Real: From Soap to Volts; Hodgkin-Huxley Model; Compartment Modeling; From Artificial Neural Network to Realistic Neural Network; Neural Circuits; The Basics; Glossary; Index | Format: Paperback | Language/Sprache: english | 600...



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