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from neural coding,
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theory, control theory, dynamics, and probability theory. This synthesis, they argue, enables novel theoretical and practical insights into the functioning of neural systems.

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written for
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applying techniques of their fields to neurobiological systems. This book provides a framework for constructing neurobiological simulations through discussions of system descriptions, design specification, and implementation.

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For years, researchers have used the theoretical tools of engineering to understand neural systems, but much of this work has been conducted in relative isolation. In *Neural Engineering*, Chris Eliasmith and Charles Anderson provide a synthesis of the disparate approaches current in computational neuroscience,

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Aug. 20 2004 by Chris
Eliasmith (Author),**

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Charles H. Anderson
(Author) 4.7 out of 5
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**Neural Engineering:
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In Neural Engineering,
Chris Eliasmith and
Charles Anderson
provide a synthesis of
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approaches current in
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from neural coding,
neural computation,
physiology,
communications
theory, control theory,
dynamics, and
probability theory.

Neural Engineering: Computation, Representation, and

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To understand
properties of neural
system activity,
engineers use signal
processing techniques

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and computational modeling (Eliasmith & Anderson 2003). To process these signals, neural engineers must translate the voltages across neural membranes into corresponding code, a process known as neural coding.

Neural engineering - Wikipedia

In Neural Engineering,
Chris Eliasmith and
Charles Anderson

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provide a synthesis of the disparate approaches current in computational neuroscience, incorporating ideas from neural coding, neural computation, physiology, communications theory, control theory, dynamics, and probability theory. This synthesis, they argue, enables novel theoretical ...

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Such insights are
pertinent to
experimental and
computational
neuroscientists and to
engineers, physicists,
and computer
scientists interested in
how their quantitative
tools relate to the
brain. The authors
present three
principles of neural

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Engineering based on the representation of signals by neural ensembles, transformations of these representations through neuronal coupling weights, and the integration of control theory and neural dynamics.

Neural Engineering | The MIT Press

Understanding the dynamics of recurrent neural networks is

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crucial for explaining how the brain processes information. In the neocortex, a range of different plasticity mechanisms are shaping recurrent networks into effective information processing circuits that learn appropriate representations for time-varying sensory stimuli.

SORN: A Self-Organizing

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**Recurrent Neural
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Eliasmith and C. H.
Anderson. p. cm. -
(Computational
neuroscience)

And Dynamics In

Neural Engineering - James S. McDonnell Foundation

Of particular interest to
Ila Fiete, a
neuroscientist at the
Massachusetts Institute
of Technology, are
neural circuit dynamics
— how patterns of
activity in populations
of neurons evolve over

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time while solving
computational
problems. These
dynamics are thought
to underlie the brain's
immense computing
power, making it fast
and flexible. In June,
Fiete and Gilles
Laurent, a
neuroscientist ...

Q&A: Finding Structure in Neural Activity - Simons Foundation

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neuroscience (also known as theoretical neuroscience or mathematical neuroscience) is a branch of neuroscience which employs mathematical models, theoretical analysis and abstractions of the brain to understand the principles that govern the development, structure, physiology and cognitive abilities of the nervous system.. In theory,

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