

# PRINCIPLES OF NEURAL SCIENCE

Sixth Edition

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**Mc  
Graw  
Hill**

# Principles Of Neural Design 2015 Worldcat

**SJ Ball**



## **Principles Of Neural Design 2015 Worldcat:**

Principles of Neural Design Peter Sterling, Simon Laughlin, 2017-06-09 Two distinguished neuroscientists distil general principles from more than a century of scientific study reverse engineering the brain to understand its design Neuroscience research has exploded with more than fifty thousand neuroscientists applying increasingly advanced methods A mountain of new facts and mechanisms has emerged And yet a principled framework to organize this knowledge has been missing In this book Peter Sterling and Simon Laughlin two leading neuroscientists strive to fill this gap outlining a set of organizing principles to explain the whys of neural design that allow the brain to compute so efficiently Setting out to reverse engineer the brain disassembling it to understand it Sterling and Laughlin first consider why an animal should need a brain tracing computational abilities from bacterium to protozoan to worm They examine bigger brains and the advantages of anticipatory regulation identify constraints on neural design and the need to nanofy and demonstrate the routes to efficiency in an integrated molecular system phototransduction They show that the principles of neural design at finer scales and lower levels apply at larger scales and higher levels describe neural wiring efficiency and discuss learning as a principle of biological design that includes save only what is needed Sterling and Laughlin avoid speculation about how the brain might work and endeavor to make sense of what is already known Their distinctive contribution is to gather a coherent set of basic rules and exemplify them across spatial and functional scales

## Whispering the Secrets of Language: An Mental Quest through **Principles Of Neural Design 2015 Worldcat**

In a digitally-driven earth wherever screens reign great and quick interaction drowns out the subtleties of language, the profound secrets and psychological nuances concealed within phrases often move unheard. However, nestled within the pages of **Principles Of Neural Design 2015 Worldcat** a captivating literary prize pulsing with raw feelings, lies an exceptional journey waiting to be undertaken. Composed by a talented wordsmith, this wonderful opus invites viewers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the very material of each word. Within the emotional depths of this touching review, we will embark upon a genuine exploration of the book is primary styles, dissect its charming publishing model, and succumb to the powerful resonance it evokes strong within the recesses of readers hearts.

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