Principles of Neural Design

Peter Sterling and Simon Laughlin

Principles Of Neural Design 2015 Worldcat

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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

This book delves into Principles Of Neural Design 2015 Worldcat. Principles Of Neural Design 2015 Worldcat is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Principles Of Neural Design 2015 Worldcat, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Principles Of Neural Design 2015 Worldcat
   - Chapter 2: Essential Elements of Principles Of Neural Design 2015 Worldcat
   - Chapter 3: Principles Of Neural Design 2015 Worldcat in Everyday Life
   - Chapter 4: Principles Of Neural Design 2015 Worldcat in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Principles Of Neural Design 2015 Worldcat. The first chapter will explore what Principles Of Neural Design 2015 Worldcat is, why Principles Of Neural Design 2015 Worldcat is vital, and how to effectively learn about Principles Of Neural Design 2015 Worldcat.
3. In chapter 2, the author will delve into the foundational concepts of Principles Of Neural Design 2015 Worldcat. This chapter will elucidate the essential principles that must be understood to grasp Principles Of Neural Design 2015 Worldcat in its entirety.
4. In chapter 3, this book will examine the practical applications of Principles Of Neural Design 2015 Worldcat in daily life. This chapter will showcase real-world examples of how Principles Of Neural Design 2015 Worldcat can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Principles Of Neural Design 2015 Worldcat in specific contexts. This chapter will explore how Principles Of Neural Design 2015 Worldcat is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Principles Of Neural Design 2015 Worldcat. The final chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Principles Of Neural Design 2015 Worldcat.

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