

# Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience)

*From A Bradford Book*

Download now


Read Online 


## Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book

Over the past few years, computer modeling has become more prevalent in the clinical sciences as an alternative to traditional symbol-processing models. This book provides an introduction to the neural network modeling of complex cognitive and neuropsychological processes. It is intended to make the neural network approach accessible to practicing neuropsychologists, psychologists, neurologists, and psychiatrists. It will also be a useful resource for computer scientists, mathematicians, and interdisciplinary cognitive neuroscientists. The editors (in their introduction) and contributors explain the basic concepts behind modeling and avoid the use of high-level mathematics.

The book is divided into four parts. Part I provides an extensive but basic overview of neural network modeling, including its history, present, and future trends. It also includes chapters on attention, memory, and primate studies. Part II discusses neural network models of behavioral states such as alcohol dependence, learned helplessness, depression, and waking and sleeping. Part III presents neural network models of neuropsychological tests such as the Wisconsin Card Sorting Task, the Tower of Hanoi, and the Stroop Test. Finally, part IV describes the application of neural network models to dementia: models of acetylcholine and memory, verbal fluency, Parkinsons disease, and Alzheimer's disease.

Contributors: J. Wesson Ashford, Rajendra D. Badgaiyan, Jean P. Banquet, Yves Burnod, Nelson Butters, John Cardoso, Agnes S. Chan, Jean-Pierre Changeux, Kerry L. Coburn, Jonathan D. Cohen, Laurent Cohen, Jose L. Contreras-Vidal, Antonio R. Damasio, Hanna Damasio, Stanislas Dehaene, Martha J. Farah, Joaquin M. Fuster, Philippe Gaussier, Angelika Gissler, Dylan G. Harwood, Michael E. Hasselmo, J. Allan Hobson, Sam Leven, Daniel S. Levine, Debra L. Long, Roderick K. Mahurin, Raymond L. Ownby, Randolph W. Parks, Michael I. Posner, David P. Salmon, David Servan-Schreiber, Chantal E. Stern, Jeffrey P. Sutton, Lynette J. Tippett, Daniel Tranel, Bradley Wyble.

 [Download](#) Fundamentals of Neural Network Modeling: Neuropsych...  
...pdf

 [Read Online](#) Fundamentals of Neural Network Modeling: Neurops...  
...pdf

# **Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience)**

*From A Bradford Book*

## **Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book**

Over the past few years, computer modeling has become more prevalent in the clinical sciences as an alternative to traditional symbol-processing models. This book provides an introduction to the neural network modeling of complex cognitive and neuropsychological processes. It is intended to make the neural network approach accessible to practicing neuropsychologists, psychologists, neurologists, and psychiatrists. It will also be a useful resource for computer scientists, mathematicians, and interdisciplinary cognitive neuroscientists. The editors (in their introduction) and contributors explain the basic concepts behind modeling and avoid the use of high-level mathematics.


The book is divided into four parts. Part I provides an extensive but basic overview of neural network modeling, including its history, present, and future trends. It also includes chapters on attention, memory, and primate studies. Part II discusses neural network models of behavioral states such as alcohol dependence, learned helplessness, depression, and waking and sleeping. Part III presents neural network models of neuropsychological tests such as the Wisconsin Card Sorting Task, the Tower of Hanoi, and the Stroop Test. Finally, part IV describes the application of neural network models to dementia: models of acetylcholine and memory, verbal fluency, Parkinsons disease, and Alzheimer's disease.

Contributors: J. Wesson Ashford, Rajendra D. Badgaiyan, Jean P. Banquet, Yves Burnod, Nelson Butters, John Cardoso, Agnes S. Chan, Jean-Pierre Changeux, Kerry L. Coburn, Jonathan D. Cohen, Laurent Cohen, Jose L. Contreras-Vidal, Antonio R. Damasio, Hanna Damasio, Stanislas Dehaene, Martha J. Farah, Joaquin M. Fuster, Philippe Gaussier, Angelika Gissler, Dylan G. Harwood, Michael E. Hasselmo, J. Allan Hobson, Sam Leven, Daniel S. Levine, Debra L. Long, Roderick K. Mahurin, Raymond L. Ownby, Randolph W. Parks, Michael I. Posner, David P. Salmon, David Servan-Schreiber, Chantal E. Stern, Jeffrey P. Sutton, Lynette J. Tippett, Daniel Tranel, Bradley Wyble.

## **Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book Bibliography**

- Rank: #3456583 in Books
- Published on: 1998-12-11
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.20" w x 7.10" l, 2.46 pounds
- Binding: Hardcover
- 428 pages

 **Download** [Fundamentals of Neural Network Modeling: Neuropsych ...pdf](#)

 **Read Online** [Fundamentals of Neural Network Modeling: Neuropsych ...pdf](#)

## **Download and Read Free Online Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book**

---

### **Editorial Review**

#### About the Author

Randolph W. Parks, Ph.D., Psy.D., is Associate Professor of Psychiatry in the University of Mississippi School of Medicine at Jackson where he is Director of Neuropsychology. Daniel S. Levine, Ph.D., is Professor in the Department of Psychology at the University of Texas at Arlington and was the former President of the International Neural Network Society. Debra L. Long, Ph.D. is Associate Professor of Psychology at the University of California, Davis and teaches in the area of cognitive neuroscience.

### **Users Review**

#### **From reader reviews:**

##### **Bobbie Wallace:**

Do you certainly one of people who can't read satisfying if the sentence chained within the straightway, hold on guys this kind of aren't like that. This Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) book is readable by simply you who hate those perfect word style. You will find the information here are arrange for enjoyable reading through experience without leaving actually decrease the knowledge that want to provide to you. The writer associated with Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) content conveys objective easily to understand by many people. The printed and e-book are not different in the written content but it just different in the form of it. So , do you nevertheless thinking Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) is not loveable to be your top checklist reading book?

##### **Tiffany Hassell:**

Playing with family in a very park, coming to see the ocean world or hanging out with buddies is thing that usually you might have done when you have spare time, then why you don't try thing that really opposite from that. A single activity that make you not experience tired but still relaxing, trilling like on roller coaster you have been ride on and with addition details. Even you love Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience), it is possible to enjoy both. It is fine combination right, you still want to miss it? What kind of hangout type is it? Oh can happen its mind hangout guys. What? Still don't obtain it, oh come on its referred to as reading friends.

##### **Patricia Lopez:**

Your reading sixth sense will not betray you, why because this Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) reserve written by well-known writer whose to say well how to make book that can be understand by anyone who all read the book. Written inside good manner for you, leaking every ideas and creating skill only for eliminate your current hunger then you still uncertainty Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive

Neuroscience (Computational Neuroscience) as good book not only by the cover but also through the content. This is one book that can break don't judge book by its deal with, so do you still needing a different sixth sense to pick that!? Oh come on your reading through sixth sense already alerted you so why you have to listening to one more sixth sense.

**Tina Alley:**

Don't be worry should you be afraid that this book will certainly filled the space in your house, you may have it in e-book means, more simple and reachable. This Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) can give you a lot of buddies because by you taking a look at this one book you have factor that they don't and make a person more like an interesting person. This book can be one of a step for you to get success. This reserve offer you information that perhaps your friend doesn't recognize, by knowing more than additional make you to be great persons. So , why hesitate? We need to have Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience).

**Download and Read Online Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book #723HCFY8J5Z**

## **Read Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book for online ebook**

Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book books to read online.

## **Online Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book ebook PDF download**

### **Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book Doc**

**Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book Mobipocket**

**Fundamentals of Neural Network Modeling: Neuropsychology and Cognitive Neuroscience (Computational Neuroscience) From A Bradford Book EPub**