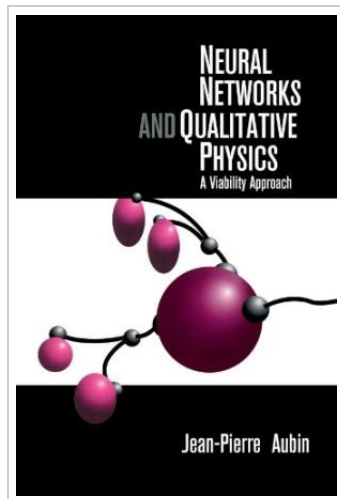




Neural Networks and Qualitative Physics: A Viability Approach (Paperback)

By Jean-Pierre Aubin

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2011. Paperback. Condition: New. Reissue. Language: English . Brand New Book ***** Print on Demand *****.This book is devoted to some mathematical methods that arise in two domains of artificial intelligence: neural networks and qualitative physics. Professor Aubin makes use of control and viability theory in neural networks and cognitive systems, regarded as dynamical systems controlled by synaptic matrices, and set-valued analysis that plays a natural and crucial role in qualitative analysis and simulation. This allows many examples of neural networks to be presented in a unified way. In addition, several results on the control of linear and nonlinear systems are used to obtain a learning algorithm of pattern classification problems, such as the back-propagation formula, as well as learning algorithms of feedback regulation laws of solutions to control systems subject to state constraints. This book will be of value to anyone with an interest in neural networks and cognitive systems.

DOWNLOAD



READ ONLINE

[9.01 MB]

Reviews

Great e-book and helpful one. It usually fails to cost an excessive amount of I discovered this publication from my dad and i encouraged this pdf to find out.

-- **Meagan Beahan**

These sorts of book is the greatest book offered. This can be for all those who statte that there had not been a really worth reading. I am just quickly could get a pleasure of reading a written ebook.

-- **Verner Goyette DDS**