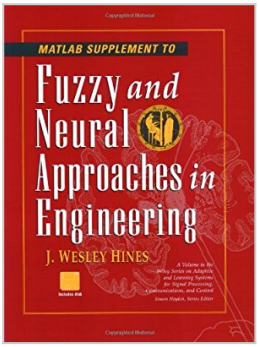

MATLAB Supplement to Fuzzy and Neural Approaches in Engineering (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control)

By J. Wesley Hines

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This book and disk set introduces the fundamentals necessary to apply fuzzy systems, neural networks, and integrated "neurofuzzy" technology to engineering problems using MATLAB. Whether used on its own or as a companion to Fuzzy and Neural Approaches in Engineering by Lefteri H. Tsoukalas and Robert E. Uhrig (Wiley 1997), it takes readers step by step from theory to code development and implementation—enabling students and researchers to explore the new frontiers in soft computing.

The Supplement features:

- A practical introduction to MATLAB, plus lists of online and other available resources
- MATLAB code demonstrations of theory and architectures discussed in Fuzzy and Neural Approaches in Engineering
- Foundations of fuzzy approaches and relationships, fuzzy numbers, and fuzzy control
- Fundamentals of competitive, associative, and dynamic neural networks and neural control systems
- Practical coverage of neural methods in fuzzy systems and other hybrid neurofuzzy systems and applications.

System requirements for IBM-compatible disk:

- 486 processor (Pentium recommended)
- 8 MB of RAM (16 MB recommended)
- 5 MB hard disk space
- MATLAB—student or professional edition
- Microsoft Word 6.0 or 7.0.

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Editorial Review

From the Publisher
Neural networks and fuzzy systems represent two distinct technologies that deal with uncertainty. This definitive book presents the fundamentals of both technologies, and demonstrates how to combine the unique capabilities of these two technologies for the greatest advantage. Steering clear of unnecessary mathematics, the book highlights a wide range of dynamic possibilities and offers numerous examples to illuminate key concepts. It also explores the value of relating genetic algorithms and expert systems to fuzzy and neural technologies.

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About the Author
J. WESLEY HINES, PhD, is a research assistant professor in the Nuclear Engineering Department at the University of Tennessee.

Users Review

From reader reviews:

Veronica Mei:

This MATLAB Supplement to Fuzzy and Neural Approaches in Engineering (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control) book is not really ordinary book, you have it then the world is in your hands. The benefit you receive by reading this book is definitely information inside this reserve incredible fresh, you will get data which is getting deeper you read a lot of information you will get. That MATLAB Supplement to Fuzzy and Neural Approaches in Engineering (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control) without we comprehend teach the one who reading it become critical in thinking and analyzing. Don't be worry MATLAB Supplement to Fuzzy and Neural Approaches in Engineering (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control) can bring whenever you are and not make your carrier space or bookshelves' come to be full because you can have it with your lovely laptop even phone. This MATLAB Supplement to Fuzzy and Neural Approaches in Engineering (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control) having excellent arrangement in word as well as layout, so you will not really feel uninterested in reading.

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