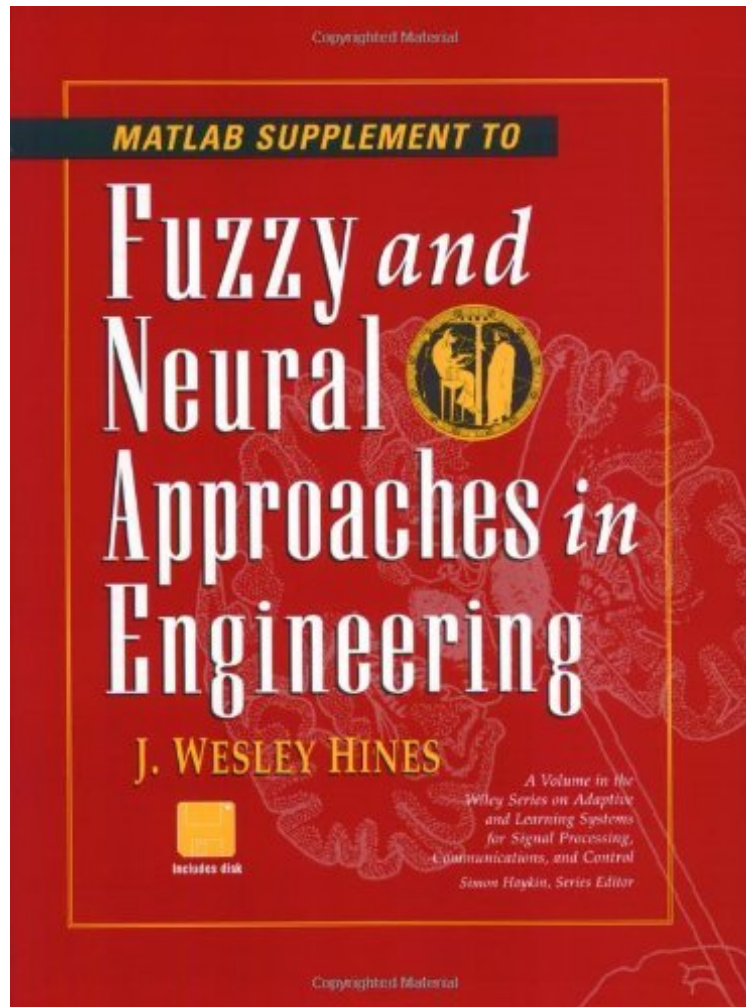


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MATLAB Supplement to Fuzzy and Neural Approaches in Engineering (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control)

Von J. Wesley Hines

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KurzbeschreibungThis 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 implementationenabling 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 MATLABstudent or professional edition Microsoft Word 6.0 or 7.0. KurzbeschreibungThis 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 implementationenabling 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 MATLABstudent or professional edition Microsoft Word 6.0 or 7.0. Synopsis 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.