Identification Of Nonlinear Systems Using Neural Networks And Polynomial Models: A Block-Oriented Approach (Lecture Notes In Control And Information Sciences)
This monograph systematically presents the existing identification methods of nonlinear systems using the block-oriented approach. It surveys various known approaches to the identification of Wiener and Hammerstein systems which are applicable to both neural network and polynomial models. The book gives a comparative study of their gradient approximation accuracy, computational complexity, and convergence rates and furthermore presents some new and original methods concerning the model parameter adjusting with gradient-based techniques. "Identification of Nonlinear Systems Using Neural Networks and Polynomial Models" is useful for researchers, engineers, and graduate students in nonlinear systems and neural network theory.