



The Volterra Series and Its Application (Paperback)

By Mark R Dunn

Createspace Independent Publishing Platform, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Modeling of weakly nonlinear systems by means of Volterra series analysis is presented. Necessary conditions for representing nonlinearities by a Volterra series are developed analytically as well as heuristically. A two-condition convergence criterion for Volterra series and a method for determining Volterra transfer functions are established. For systems with multiple nodes, an extension of Volterra series analysis; method of nonlinear currents is developed and applied to a MESFET amplifier. Finally, methods of quantifying nonlinear behavior are discussed.



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