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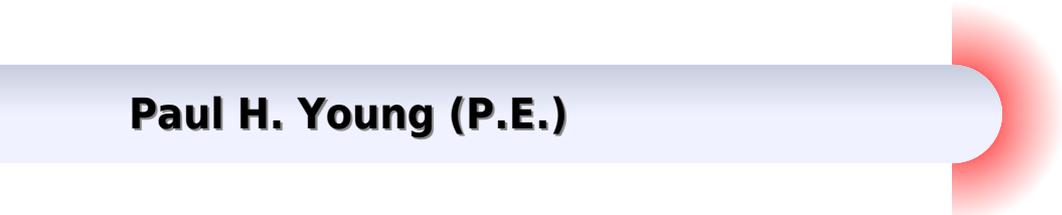
# TOLERANCE ANALYSIS OF ELECTRONIC CIRCUITS

## USING Mathcad

Robert R. Boyd

# Tolerance Analysis Of Electronic Circuits Using Mathcad

**Paul H. Young (P.E.)**



## **Tolerance Analysis Of Electronic Circuits Using Mathcad:**

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**Node List Tolerance Analysis** Robert R. Boyd,2018-10-03 Developed at UC Berkeley more than two decades ago SPICE software is the tool of choice for performing nominal analysis for electronic circuits However attempts to use SPICE for worst case analysis WCA reveal several shortcomings including a 400 sample limit for Monte Carlo Analysis MCA lack of Rot Sum Square RSS analysis asymmetric component tolerances Fast MCA or AC sensitivity capability no single run method of tolerancing inputs and no predefined beta skewed or bimodal gapped distributions for MCA While several commercial versions of SPICE may have corrected some of these limitations they still remain rather expensive Based on extensive experience in WCA Node List Tolerance Analysis Enhancing SPICE Capabilities with Mathcad presents software methods that overcome the many limitations of SPICE WCA using less expensive tools The author demonstrates correct and incorrect methods of extreme value analysis demonstrates the necessity of tolerancing multiple inputs and provides output histograms for unusual inputs He also shows how to detect non monotonic components which cause severe errors in all WCA methods except MCA The book also includes demonstrations of tolerance analysis of three phase AC circuits Node List Tolerance Analysis Enhancing SPICE Capabilities with Mathcad requires no circuit analysis mathematics supplying original methods of nominal circuit analysis using node lists It is ideal for performing effective analyses while adhering to a budget

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