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SYMBOLIC ANALYSIS FOR AUTOMATED DESIGN OF ANALOG INTEGRATED CIRCUITS

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Book Condition: New. Publisher/Verlag: Springer, Berlin | It is a great honor to provide a few words of introduction for Dr. Georges Gielen's and Prof. Willy Sansen's book "Symbolic analysis for automated design of analog integrated circuits". The symbolic analysis method presented in this book represents a significant step forward in the area of analog circuit design. As demonstrated in this book, symbolic analysis opens up new possibilities for the development of computer-aided design (CAD) tools that can analyze an analog circuit topology and automatically size the components for a given set of specifications. Symbolic analysis even has the potential to improve the training of young analog circuit designers and to guide more experienced designers through second-order phenomena such as distortion. This book can also serve as an excellent reference for researchers in the analog circuit design area and creators of CAD tools, as it provides a comprehensive overview and comparison of various approaches for analog circuit design automation and an extensive bibliography. The world is essentially analog in nature, hence most electronic systems involve both analog and digital circuitry. As the number of transistors that can be integrated on a single integrated circuit (IC) substrate steadily increases over time, an ever increasing number of systems will be implemented with one, or a few, very complex ICs because of their lower production costs. | 1. Introduction to Analog Design Automation.- 1.1. Introduction.- 1.2. Definitions in analog design automation.- 1.3. Characteristics of analog design.- 1.4. Needs for analog circuits and analog design automation.- 1.5. Different analog design approaches and analog silicon compilation.- 1.6. Analog system-level synthesis.- 1.7. Outline of the book.- 2. The Automated Design of Analog Functional Modules.- 2.1. Introduction.- 2.2. Classification of analog module design programs.- 2.3. An automated design methodology for analog modules.- 2.4. The methodology applied to...

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