



# Advanced Symbolic Analysis for VLSI Systems: Methods and Applications

*Guoyong Shi, Sheldon Tan, Esteban Tlelo-Cuautle*

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**Advanced Symbolic Analysis for VLSI Systems: Methods and Applications** Guoyong Shi, Sheldon Tan, Esteban Tlelo-Cuautle

This book provides comprehensive coverage of the recent advances in symbolic analysis techniques for design automation of nanometer VLSI systems. The presentation is organized in parts of fundamentals, basic implementation methods and applications for VLSI design. Topics emphasized include statistical timing and crosstalk analysis, statistical and parallel analysis, performance bound analysis and behavioral modeling for analog integrated circuits. Among the recent advances, the Binary Decision Diagram (BDD) based approaches are studied in depth. The BDD-based hierarchical symbolic analysis approaches, have essentially broken the analog circuit size barrier.



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