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Advances in Analog Circuits Esteban Tlelo-Cuautle, 2011-02-02 This book highlights key design issues and challenges to guarantee the development of successful applications of analog circuits Researchers around the world share acquired experience and insights to develop advances in analog circuit design modeling and simulation The key contributions of the sixteen chapters focus on recent advances in analog circuits to accomplish academic or industrial target specifications

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Simulated Annealing Marcos Sales Guerra Tsuzuki, 2012-10-17 This book presents state of the art contributes to Simulated Annealing SA that is a well known probabilistic meta heuristic It is used to

solve discrete and continuous optimization problems The significant advantage of SA over other solution methods has made it a practical solution method for solving complex optimization problems Book is consisted of 13 chapters classified in single and multiple objectives applications and it provides the reader with the knowledge of SA and several applications We encourage readers to explore SA in their work mainly because it is simple and can determine extremely very good results

Simulation and Optimization of Digital Circuits Vazgen Melikyan,2018-04-12 This book describes new fuzzy logic based mathematical apparatus which enable readers to work with continuous variables while implementing whole circuit simulations with speed similar to gate level simulators and accuracy similar to circuit level simulators The author demonstrates newly developed principles of digital integrated circuit simulation and optimization that take into consideration various external and internal destabilizing factors influencing the operation of digital ICs The discussion includes factors including radiation ambient temperature electromagnetic fields and climatic conditions as well as non ideality of interconnects and power rails **Energy Research Abstracts** ,1985 1986 Proceedings Harold S. Stone,1986

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