Mismatch Theory and Measurement for Semiconductors (Paperback)

By Mike Peralta

Createspace, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.THE MOST ADVANCED SEMICONDUCTOR MISMATCH TECHNIQUES These mismatch methods are the most advanced techniques in the Semiconductor field. All the practical matters of simulation, measurement, and mismatch model parameter generation (using random field theory) including multi-device co-correlation are handled in an accurate, practical, and comprehensive manner. This represents a true advance and technical progress in the matter of semiconductor mismatch simulation and measurement. If you re involved in any way with mismatch of semiconductor devices you ve got to get this book. If not for yourself then for the modelers that create your semiconductor models for you. TABLE OF CONTENTS SUMMARY PART I. DEVICE MISMATCH SIMULATION OVERVIEW - How To Perform Monte-Carlo And Mismatch Simulation - Parameters and Statistics Model Files - Process Mismatch Variation - Mismatch vs Area - Mismatch vs Distance and Other Effects (Mismatch Factor) - Effective Mismatch Factor PART II. MISMATCH MEASUREMENT TECHNIQUES Resistors, Diodes, Mosfets, Bipolar Transistors, JFETs Monte-Carlo Analysis of Correlated Variables Differential Mismatch Measurement Features: - Far superior accuracy compared to past traditional methods. - Differential method: Both devices are biased simultaneously, greatly reducing common mode...

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Reviews

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