



# Nanoelectronic Mixed-Signal System Design

*Saraju Mohanty*

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**Nanoelectronic Mixed-Signal System Design** Saraju Mohanty

**Covering both the classical and emerging nanoelectronic technologies being used in mixed-signal design, this book addresses digital, analog, and memory components.**

*Nanoelectronic Mixed-Signal System Design* offers professionals and students a unified perspective on the science, engineering, and technology behind nanoelectronics system design. Written by the director of the NanoSystem Design Laboratory at the University of North Texas, this comprehensive guide provides a large-scale picture of the design and manufacturing aspects of nanoelectronic-based systems. It features dual coverage of mixed-signal circuit and system design, rather than just digital or analog-only. Key topics such as process variations, power dissipation, and security aspects of electronic system design are discussed.

- Top-down analysis of all stages--from design to manufacturing
- Coverage of current and developing nanoelectronic technologies--not just nano-CMOS
- Describes the basics of nanoelectronic technology and the structure of popular electronic systems
- Reveals the techniques required for design excellence and manufacturability

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