



MicroCMOS Design (Circuits and Electrical Engineering)

Bang-Sup Song

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MicroCMOS Design covers key analog design methodologies with an emphasis on analog systems that can be integrated into systems-on-chip (SoCs). Starting at the transistor level, this book introduces basic concepts in the design of system-level complementary metal-oxide semiconductors (CMOS). It uses practical examples to illustrate circuit construction so that readers can develop an intuitive understanding rather than just assimilate the usual conventional analytical knowledge.

As SoCs become increasingly complex, analog/radio frequency (RF) system designers have to master both system- and transistor-level design aspects. They must understand abstract concepts associated with large components, such as analog-to-digital converters (ADCs) and phase-locked loops (PLLs). To help readers along, this book discusses topics including:

- Amplifier basics & design
- Operational amplifier (Opamp)
- Data converter basics
- Nyquist-rate data converters
- Oversampling data converters
- High-resolution data converters
- PLL basics
- Frequency synthesis and clock recovery

Focused more on design than analysis, this reference avoids lengthy equations and instead helps readers acquire a more hands-on mastery of the subject based on the application of core design concepts. Offering the needed perspective on the various design techniques for data converter and PLL design, coverage starts with abstract concepts?including discussion of bipolar junction transistors (BJTs) and MOS transistors?and builds up to an examination of the larger systems derived from microCMOS design.

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