



CMOS Time-Mode Circuits and Systems: Fundamentals and Applications (Devices, Circuits, and Systems)

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Time-mode circuits, where information is represented by time difference between digital events, offer a viable and technology-friendly means to realize mixed-mode circuits and systems in nanometer complementary metal-oxide semiconductor (CMOS) technologies. Various architectures of time-based signal processing and design techniques of CMOS time-mode circuits have emerged; however, an in-depth examination of the principles of time-based signal processing and design techniques of time-mode circuits has not been available until now.

CMOS Time-Mode Circuits and Systems: Fundamentals and Applications is the first book to deliver a comprehensive treatment of CMOS time-mode circuits and systems. Featuring contributions from leading experts, this authoritative text contains a rich collection of literature on time-mode circuits and systems.

The book begins by presenting a critical comparison of voltage-mode, current-mode, and time-mode signaling for mixed-mode signal processing and then:

- Covers the fundamentals of time-mode signal processing, such as voltage-to-time converters, all-digital phase-locked loops, and frequency synthesizers
- Investigates the performance characteristics, architecture, design techniques, and implementation of time-to-digital converters
- Discusses time-mode delta-sigma-based analog-to-digital converters, placing a great emphasis on time-mode quantizers
- Includes a detailed study of ultra-low-power integrated time-mode temperature measurement systems

CMOS Time-Mode Circuits and Systems: Fundamentals and Applications provides a valuable reference for circuit design engineers, hardware system engineers, graduate students, and others seeking to master this fast-evolving field.

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