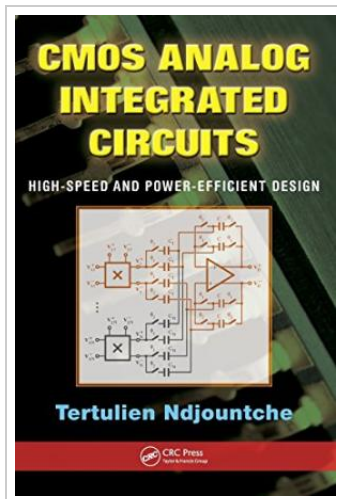




CMOS Analog Integrated Circuits: High-Speed and Power-Efficient Design

By Tertulien Ndjountche

CRC Press. Hardcover. Book Condition: New. Hardcover. 925 pages. Dimensions: 10.2in. x 7.2in. x 2.3in. High-speed, power-efficient analog integrated circuits can be used as standalone devices or to interface modern digital signal processors and micro-controllers in various applications, including multimedia, communication, instrumentation, and control systems. New architectures and low device geometry of complementary metal-oxide-semiconductor (CMOS) technologies have accelerated the movement toward system on a chip design, which merges analog circuits with digital, and radio-frequency components. CMOS: Analog Integrated Circuits: High-Speed and Power-Efficient Design describes the important trends in designing these analog circuits and provides a complete, in-depth examination of design techniques and circuit architectures, emphasizing practical aspects of integrated circuit implementation. Focusing on designing and verifying analog integrated circuits, the author reviews design techniques for more complex components such as amplifiers, comparators, and multipliers. The book details all aspects, from specification to the final chip, of the development and implementation process of filters, analog-to-digital converters (ADCs), digital-to-analog converters (DACs), phase-locked loops (PLLs), and delay-locked loops (DLLs). It also describes different equivalent transistor models, design and fabrication considerations for high-density integrated circuits in deep-submicrometer process, circuit structures for the design of current mirrors and voltage references, topologies of suitable amplifiers, continuous-time and...



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