



Analogue Ic Design: The Current-Mode Approach (I E E Circuits, Devices and Systems Series)

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State-of-the-art analogue integrated circuit design is receiving a tremendous boost from the development and application of current-mode approaches, which are rapidly superseding traditional voltage-mode techniques. This activity is linked to important advances in integrated circuit technologies, such as the "true" complementary bipolar process; CMOS VLSI technology, which allows realization of high-performance mixed analogue and digital circuits, and gallium arsenide processing, which has matured to a point where it can be used effectively in high-speed analogue circuit and system design. In this book, all three technologies are represented, with key building blocks, circuit designs and applications. Many very important, but recent, techniques are presented, including switched-current techniques for high-precision filtering and A/D and D/A conversion, current based amplifying techniques and neutral networks. Translinear principles, current mirrors, and the current conveyor are also covered. This book draws together contributions from analogue IC designers to provide a text devoted to this important and exciting new area of analogue electronics.

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