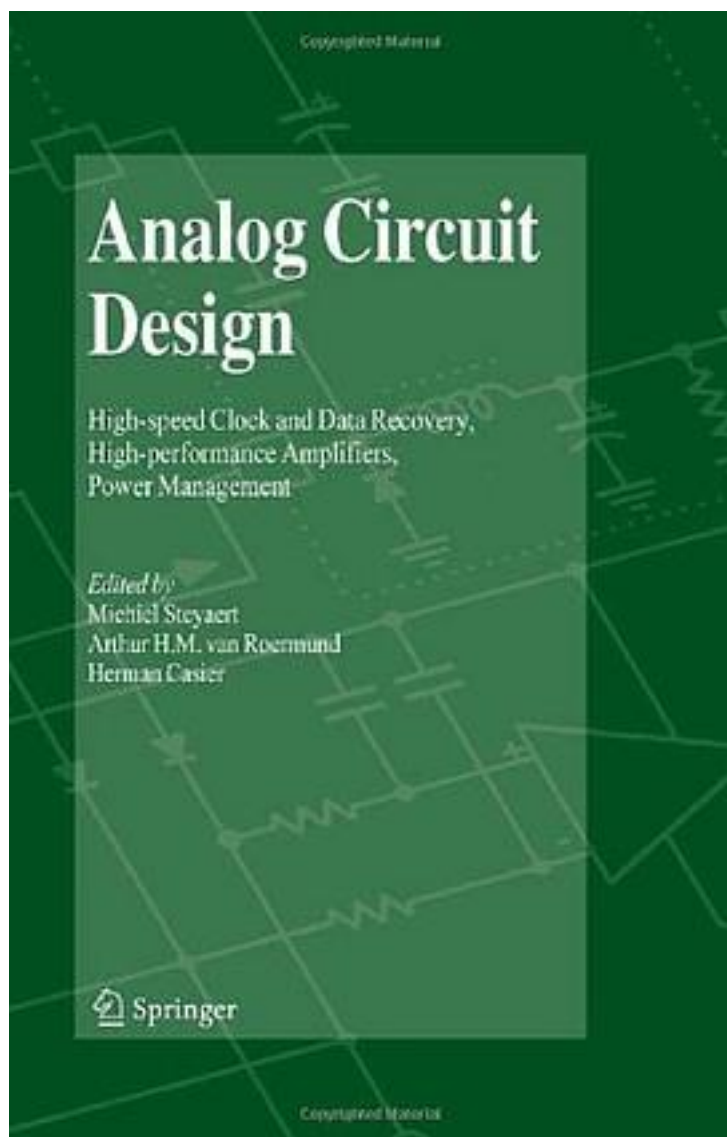


# Analog Circuit Design



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This volume of Analog Circuit Design concentrates on three topics: Volt Electronics; Design and Implementation of Mixed-Mode Systems; Low-Noise and RF Power Amplifiers for Telecommunication. The book comprises six papers on each topic written by internationally recognised experts. These papers are tutorial in nature and together make a substantial contribution to improving the design of analog circuits. The book is divided into three parts: Part I, Volt Electronics, presents some of the circuit design challenges which are having to be met as the need for more electronics on a chip forces smaller transistor dimensions, and thus lower breakdown voltages. The papers cover techniques for 1-Volt electronics. Part II, Design and Implementation of Mixed-Mode Systems, deals with the various problems that are encountered in mixed analog-digital design. In the future, all integrated circuits are bound to contain both digital and analog sub-blocks. Problems such as substrate bounce and other substrate coupling effects cause deterioration in signal integrity. Both aspects of mixed-signal design have been addressed in this section and it illustrates that careful layout techniques embedded in a hierarchical design methodology can allow us to cope with most of the challenges presented by mixed analog-digital design. Part III, Low-noise and RF Power Amplifiers for Telecommunication, focuses on telecommunications systems. In these systems low-noise amplifiers are front-ends of receiver designs. At the transmitter part a high-performance, high-efficiency power amplifier is a critical design. Examples of both system parts are described in this section. Analog Circuit Design is an essential reference source for analog design engineers and researchers wishing to keep abreast with the latest developments in the field. The tutorial nature of the contributions also makes it suitable for use in an advanced course.

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