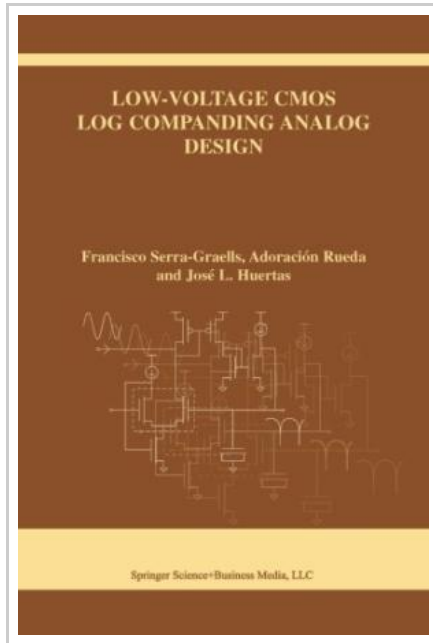



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# Low-voltage CMOS Log Companding Analog Design

By Francisco Serra-Graells

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0.5in. Low-Voltage CMOS Log Companding Analog Design

presents in detail state-of-the-art analog circuit techniques for the very low-voltage and low-power design of systems-on-chip in CMOS technologies. The proposed strategy is mainly based

on two bases: the Instantaneous Log Companding Theory, and the MOSFET operating in the subthreshold region. The former

allows inner compression of the voltage dynamic-range for very low-voltage operation, while the latter is compatible with

CMOS technologies and suitable for low-power circuits. The

required background on the specific modeling of the MOS transistor for Companding is supplied at the beginning.

Following this general approach, a complete set of CMOS basic building blocks is proposed and analyzed for a wide variety of analog signal processing. In particular, the covered areas

include: amplification and AGC, arbitrary filtering, PTAT

generation, and pulse duration modulation (PDM). For each

topic, several case studies are considered to illustrate the

design methodology. Also, integrated examples in 1.2μm and

0.35μm CMOS technologies are reported to verify the good

agreement between design equations and experimental data.

The resulting analog circuit topologies exhibit very low-voltage (i. e. 1V) and low-power (few...



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