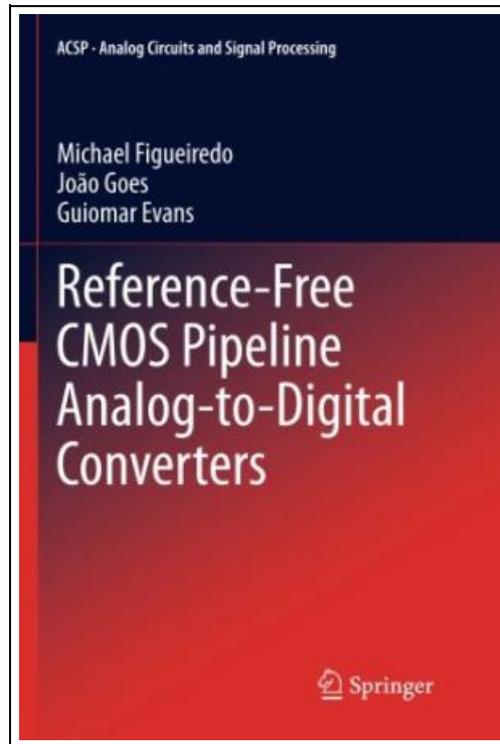


## Reference-Free CMOS Pipeline Analog-to-Digital Converters (Paperback)



Filesize: 9.28 MB

### **Reviews**

*This type of ebook is every little thing and made me looking ahead of time and more. It is among the most amazing book i actually have read through. Its been designed in an exceptionally simple way in fact it is simply soon after i finished reading through this pdf in which actually transformed me, change the way i believe.*

**(Dr. Ron Kovacek)**

## REFERENCE-FREE CMOS PIPELINE ANALOG-TO-DIGITAL CONVERTERS (PAPERBACK)



Springer-Verlag New York Inc., United States, 2014. Paperback. Condition: New. 2013 ed.. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This book shows that digitally assisted analog to digital converters are not the only way to cope with poor analog performance caused by technology scaling. It describes various analog design techniques that enhance the area and power efficiency without employing any type of digital calibration circuitry. These techniques consist of self-biasing for PVT enhancement, inverter-based design for improved speed/power ratio, gain-of-two obtained by voltage sum instead of charge redistribution, and current-mode reference shifting instead of voltage reference shifting. Together, these techniques allow enhancing the area and power efficiency of the main building blocks of a multiplying digital-to-analog converter (MDAC) based stage, namely, the flash quantizer, the amplifier, and the switched capacitor network of the MDAC. Complementing the theoretical analyses of the various techniques, a power efficient operational transconductance amplifier is implemented and experimentally characterized. Furthermore, a medium-low resolution reference-free high-speed time-interleaved pipeline ADC employing all mentioned design techniques and circuits is presented, implemented and experimentally characterized. This ADC is said to be reference-free because it precludes any reference voltage, therefore saving power and area, as reference circuits are not necessary. Experimental results demonstrate the potential of the techniques which enabled the implementation of area and power efficient circuits.



[Read Reference-Free CMOS Pipeline Analog-to-Digital Converters \(Paperback\) Online](#)



[Download PDF Reference-Free CMOS Pipeline Analog-to-Digital Converters \(Paperback\)](#)

## You May Also Like

**Weebies Family Halloween Night English Language: English Language British Full Colour**

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\*  
Print on Demand \*\*\*\*\*.Children s Weebies Family Halloween Night Book 20 starts to teach Pre-School and...

[Download PDF >](#)

**Your Pregnancy for the Father to Be Everything You Need to Know about Pregnancy Childbirth and Getting Ready for Your New Baby by Judith Schuler and Glade B Curtis 2003 Paperback**

Book Condition: Brand New. Book Condition: Brand New.

[Download PDF >](#)

**Becoming Barenaked: Leaving a Six Figure Career, Selling All of Our Crap, Pulling the Kids Out of School, and Buying an RV We Hit the Road in Search Our Own American Dream. Redefining What It Meant to Be a Family in America.**

Createspace, United States, 2015. Paperback. Book Condition: New. 258 x 208 mm. Language: English . Brand New Book \*\*\*\*\*  
Print on Demand \*\*\*\*\*.This isn t porn. Everyone always asks and some of our family thinks...

[Download PDF >](#)

**Barabbas Goes Free: The Story of the Release of Barabbas Matthew 27:15-26, Mark 15:6-15, Luke 23:13-25, and John 18:20 for Children**

Paperback. Book Condition: New.

[Download PDF >](#)

**Mom s Favourite Bed Time Stories for Kids: For All Children**

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\*  
Print on Demand \*\*\*\*\*.Is a collection of choicest bed time stories for children full of adventure,...

[Download PDF >](#)