



Analog IC Design Techniques for Nanopower Biomedical Signal Processing (River Publishers Series in Biomedical Engineering)

Chutham Sawigun, Wouter a Serdijn

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As the requirements for low power consumption and very small physical dimensions in portable, wearable and implantable medical devices are calling for integrated circuit design techniques using MOSFETs operating in the subthreshold regime, this book first revisits some well-known circuit techniques that use CMOS devices biased in subthreshold in order to establish nanopower integrated circuit designs. Based on the these findings, this book shows the development of a class-AB current-mode sample-and-hold circuit with an order of magnitude improvement in its figure of merit compared to other state-of-the-art designs. Also, the concepts and design procedures of 1) single-branch filters 2) follower-integrator-based lowpass filters and 3) modular transconductance reduction techniques for very low frequency filters are presented. Finally, to serve the requirement of a very large signal swing in an energy-based action potential detector, a nanopower class-AB current-mode analog multiplier is designed to handle input current amplitudes of more than 10 times the bias current of the multiplier circuit. The invented filter circuits have been fabricated in a standard 0.18 μ CMOS process in order to verify our circuit concepts and design procedures. Their experimental results are reported."

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Playing with family in the park, coming to see the water world or hanging out with pals is thing that usually you will have done when you have spare time, and then why you don't try matter that really opposite from that. A single activity that make you not sense tired but still relaxing, trilling like on roller coaster you already been ride on and with addition of knowledge. Even you love Analog IC Design Techniques for Nanopower Biomedical Signal Processing (River Publishers Series in Biomedical Engineering), you are able to enjoy both. It is excellent combination right, you still want to miss it? What kind of hang type is it? Oh can occur its mind hangout people. What? Still don't understand it, oh come on its named reading friends.

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