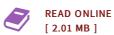




On the Design of a Highly Linear CMOS Programmable Transconductor

By Mohamed Elamien

LAP Lambert Academic Publishing Aug 2017, 2017. Taschenbuch. Condition: Neu. Neuware - This book presents a novel highly linear CMOS digitally programmable operational transconductor amplifier (DPOTA) circuit. Two versions of the proposed DPOTA are optimized. The first version is optimized for high-frequency operation with current division networks (CDNs) designated to 3-bit control code words. On the other hand, the second version is optimized for low-frequency operation with 4-bit control code words. Moreover, this book presents two complete systems based on the proposed DPOTA. The first system is the multi-standard receiver analog baseband chain which provides a variable gain from 0 dB to 70 dB, and in-band IIP3 of 21.9 dBm. The second system is the analog front end for the biopotential signals detection systems. Finally, A novel 100 Hz-12 MHz low-pass filter based on both versions of the proposed DPOTA is also proposed. This low-pass filter is suitable for low, medium and high-frequency applications. 152 pp. Englisch.



Reviews

This book is indeed gripping and interesting. It really is rally exciting throgh studying period. Its been written in an extremely easy way and is particularly merely soon after i finished reading this book through which in fact changed me, affect the way i think.

-- Aisha Lemke

This is actually the finest publication i actually have study right up until now. We have study and so i am confident that i am going to planning to go through again again in the foreseeable future. I am just effortlessly will get a delight of studying a published book.

-- Lori Bernier