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The biopotential readout circuits have to cope with various problems, while extracting the biopotential signals from the human body. These problems are not only due to the extremely weak...

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There is a growing demand for low-power, small-size and ambulatory biopotential acquisition systems. A crucial and important block of this acquisition system is the analog readout front-end.

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Analog Circuits and Signal Processing: Biopotential ...

Hz Readout Front-End for Portable Biopotential Acquisition Systems.

Abstract: There is a growing demand for low-power, small-size and ambulatory biopotential acquisition systems. A crucial and important block of this acquisition system is the analog readout front-end. We have implemented a low-power and low-noise readout front-end with configurable characteristics for Electroencephalogram (EEG), Electrocardiogram (ECG), and Electromyogram (EMG) signals.

A 60 -W 60 nV/-Hz Readout Front-End for Portable ...

The readout front-end ASIC of Chap. 3 requires a large number of off-chip components and has a relatively large

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current consumption. Although, its usage can considerably improve the size of the existing biopotential acquisition systems, the relatively large current consumption still limits the power autonomy of the system.

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