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biopotential signals from conventional biopotential electrodes.

## **Analog Circuits and Signal Processing: Biopotential ...**

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acquisition systems.

[Refet Firat Yazıcioğlu;  
Chris van Hoof; R  
Puers]

## **Biopotential readout circuits for portable acquisition ...**

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

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## For Portable **(PDF) A 60 W 60 nV/ Hz Readout Front- End for Portable ...**

A biopotential readout front-end can be configured to extract EEG, ECG, and EMG signals and draws 20 $\mu$ A from 3V. AC coupling of chopped amplifiers results in an input-referred noise of 60nV/radicHz...

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contaminating signals in portable biomedical monitoring systems is of great challenge in minimizing the power consumption while maintaining a high performance. This thesis investigates the most critical component in the biopotential acquisition system: the readout front-end (RFE) for obtaining high quality biopotential signal.

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Circuits using  
Frequency ...**

Under the framework of the Human++ program IMEC has implemented various biopotential readout circuits that can enable the implementation of truly portable biopotential acquisition systems with long-term or complete power autonomy. The rest of this section will

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describe these  
biopotential readout  
circuits. 3.1.

## **Ultra-low-power biopotential interfaces and their**

...

The readout front-end  
ASIC of Chap. 3  
requires a large  
number of off-chip  
components and has a  
relatively large current  
consumption.  
Although, its usage can  
considerably improve

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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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Biopotential. ADI offers solutions to measure the small, hard to

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identify signals that come from the electrodes in portable and clinical grade equipment. ADI offers signal conditioning solutions for heart rate monitoring (HRM), electrocardiography (ECG), electroencephalography (EEG), and electromyography (EMG) applications.

**Biopotential | Analog  
Devices**

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A 30  $\mu$ W Analog  
Signal Processor ASIC  
for Portable  
Biopotential Signal  
Monitoring ... The noise  
density of the ECG  
readout channel is 85  
nV/ $\sqrt{\text{Hz}}$  and the CMRR  
is better than 105 dB.  
... the proposed  
continuous-time  
impedance monitoring  
circuit enables the  
monitoring of the  
signal integrity.

Published in: IEEE  
Journal of Solid-State

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## For Portable **A 30 -W Analog Signal Processor ASIC for Portable ...**

turized and portable biopotential monitoring systems are required to record signals while causing min- ... Figure 6 illustrates the layout of the proposed circuit, which includes the biopotential AFE and 12- ...  $\sqrt{\text{Hz}}$  readout front-end for portable biopotential acquisition

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systems, IEEE Journal  
of Solid-State  
Circuits 42.5 (2007),  
1100-1110.

## **IOS Press Analog front-end measuring biopotential signal**

...

Several readout  
circuits for ambulatory  
monitoring of  
biopotential signals  
have been proposed in  
the prior art. For  
battery powered  
portable devices that

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are continuously  
monitoring electronic...

**EP2294979B1 -  
Method and  
electronic medical  
device for ...**

A 60 W 60 nV/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

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important block of this acquisition system is the analog readout front-end.

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