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Biopotential Readout Circuits for Portable Acquisition Systems by Refet Firat Yazicioglu, 9781402090929, available at Book Depository with free delivery worldwide.

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4.6 Eight-Channel EEG Readout Front-End 63 4.6.1 Implementation 63 4.6.2 Measurement of Performance 68 4.6.3 Biological Test Results 71 4.7 Comparison with the State-of-the-Art 75 4.8 Conclusions 77 5 A Complete Biopotential Acquisition ASIC 79 5.1 Introduction 79 5.2 ASIC Architecture 79 5.3 Bias Generator Circuit 81

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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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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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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 characteristics of the biopotential signals but also due to the environment and the apparatus that are being used during the signal acquisition. Therefore, the design of a readout circuit for the biopotential acquisition systems requires a solid understanding of not only the analog circuit design techniques ...

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