



On the Design of an Analog Front-End for an X-Ray Detector

By Farooq Ul Amin

LAP Lambert Acad. Publ. Mrz 2010, 2010. Taschenbuch. Condition: Neu. Neuware - Rapid development in CMOS technology has resulted in its suitability for the implementation of readout front-end systems in terms of high integration density, and low power consumption yet at the same time posing many challenges for analog circuits design like readout front-end. One of the significant challenges is the low noise design for high speed front-end systems, while at the same time minimizing the power consumption as much as possible. A high speed, low noise, low power, and programmable readout front-end system is designed and implemented for an X-ray detector in CMOS 0.18 μ m technology in this work. The material in this book is for both professionals in Analog IC Design and students; graduate as well as senior year undergraduate. 140 pp. Englisch.

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