



A Second-Order ADC Using Sputtered IGZO TFTs (SpringerBriefs in Electrical and Computer Engineering)

Ana Paula Pinto Correia, Pedro Miguel Cândido Barquinha, João Carlos da Palma Goes

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This book discusses the design, electrical simulation and layout of a 2nd-order $\Sigma\Delta$ analog-to-digital converter (ADC), using oxide thin-film transistors (TFTs) technology. The authors provide a unified view of materials science and electronics engineering, in order to guide readers from both fields through key topics. To accomplish this goal, background regarding materials, device physics, characterization techniques, circuit design and layout is given together with a detailed discussion of experimental data. The final simulation results clearly demonstrate the potential of the proposed circuit-level techniques, which enables the implementation of robust and energy efficient ADCs based on oxide TFTs, for moderate resolutions and conversion-rates.

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