High-Speed Optical Receivers with Integrated Photodiode in Nanoscale CMOS (Analog Circuits and Signal Processing)

Filip Tavernier, Michiel Steyaert

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This book describes the design of optical receivers that use the most economical integration technology, while enabling performance that is typically only found in very expensive devices. To achieve this, all necessary functionality, from light detection to digital output, is integrated on a single piece of silicon. All building blocks are thoroughly discussed, including photodiodes, transimpedance amplifiers, equalizers and post amplifiers.

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