CMOS Receiver Front-ends for Gigabit Short-Range Optical Communications (Analog Circuits and Signal Processing)

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This book describes optical receiver solutions integrated in standard CMOS technology, attaining high-speed short-range transmission within cost-effective constraints. These techniques support short reach applications, such as local area networks, fiber-to-the-home and multimedia systems in cars and homes. The authors show how to implement the optical front-end in the same technology as the subsequent digital circuitry, leading to integration of the entire receiver system in the same chip. The presentation focuses on CMOS receiver design targeting gigabit transmission along a low-cost, standardized plastic optical fiber up to 50m in length. This book includes a detailed study of CMOS optical receiver design – from building blocks to the system level.

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