



Highly Sensitive Optical Receivers (Springer Series in Advanced Microelectronics)

Kerstin Schneider

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Highly Sensitive Optical Receivers primarily treats the circuit design of optical receivers with external photodiodes. Continuous-mode and burst-mode receivers are compared. The monograph first summarizes the basics of III/V photodetectors, transistor and noise models, bit-error rate, sensitivity and analog circuit design, thus enabling readers to understand the circuits described in the main part of the book. In order to cover the topic comprehensively, detailed descriptions of receivers for optical data communication in general and, in particular, optical burst-mode receivers in deep-sub- μm CMOS are presented. Numerous detailed and elaborate illustrations facilitate better understanding.

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