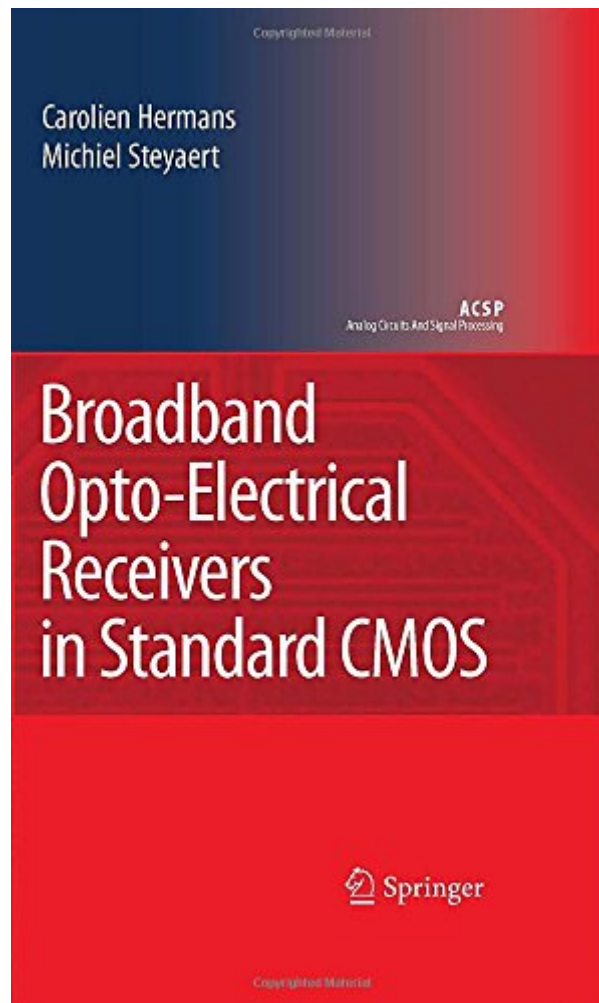


Broadband Opto-Electrical Receivers in Standard CMOS (Analog Circuits and Signal Processing) PDF



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Broadband Opto-Electrical Receivers in Standard CMOS (Analog Circuits and Signal Processing)
by Carolien Hermans, Michiel Steyaert ISBN 1402062214

This book opens with the basics of the design of opto-electronic interface circuits. The text continues with an in-depth analysis of the photodiode, transimpedance amplifier (TIA) and limiting amplifier (LA). To thoroughly describe light detection mechanisms in silicon, first a one-dimensional and second a two-dimensional model is developed. All material is experimentally verified with several CMOS implementations, with ultimately a fully integrated Gbit/s optical receiver front-end including photodiode, TIA and LA.

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