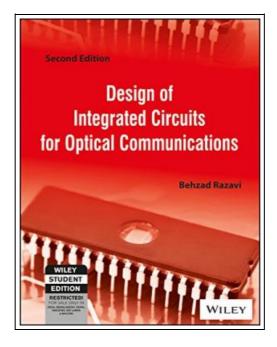
# Design of Integrated Circuits for Optical Communications (Second Edition)



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Wiley India, 2015. Softcover. Condition: New. 2nd edition. Design of Integrated Circuits for Optical Communications, Second Edition deals with the design of high-speed integrated circuits for optical communication transceivers. The only book on integrated circuits for optical communications that fully covers High-Speed IOs, PLLs, CDRs and transceiver design including optical communication. The increasing demand for high-speed transport of data has revitalized optical communications, leading to extensive work on high-speed device and circuit design. With the proliferation of the Internet and the rise in the speed of microprocessors and memories, the transport of data continues to be the bottleneck, motivating work on faster communication channels. Preface to First Edition Preface About the Author 1 Introduction to Optical Communications 1.1 Brief History 1.2 Generic Optical System 1.3 Design Challenges 1.4 State of the Art 2 Basic Concepts 2.1 Properties of Random Binary Data 2.2 Generation of Random Data 2.3 Data Formats 2.4 Effect of Bandwidth Limitation on Random Data 2.5 Effect of Noise on Random Data 2.6 Phase Noise and Jitter 2.7 Transmission Lines 3 Optical Devices 3.1 Laser Diodes 3.2 Optical Fibers 3.3 Photodiodes 3.4 Optical Systems 4 Transimpedance Amplifiers 4.1 General Considerations 4.2 Open-Loop TIAs 4.3 Feedback TIAs 4.4 Supply Rejection 4.5 Differential TIAs 4.6 High-Performance Techniques 4.7 Automatic Gain Control 4.8 Case Studies 4.9 New Developments in TIA Design 5 Limiting Amplifiers and Output Buffers 5.1 General Considerations 5.2 Broadband Techniques 5.3 Output Buffers 5.4 Distributed Amplification 5.5 Other Broadband Techniques 6 Oscillator Fundamentals 6.1 General Considerations 6.2 Ring Oscillators 6.3 LC Oscillators 6.4 Voltage-Controlled Oscillators 7.5 Distributed Oscillators 8 Phase-Locked Loops 8.1 Simple PLL 8.2 Charge-Pump PLLs 8.3 Nonideal Effects in PLLs 8.4 Delay-Locked Loops 8.5 Applications 9...



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