

Advanced Digital Signal Processing in Coherent Optical Systems

Chen Zhu

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The main objective of this book is to investigate computationally-efficient and modulation format-flexible DSP algorithms for fibre channel impairment compensation and performance monitoring in PDM singlecarrier coherent optical systems. Novel blind equalization scheme based on frequency domain block processing structure is proposed for PDM-QPSK and PDM-16-QAM systems with single-stage and twostage convergence process, respectively. Then the combination of training-aided channel estimation and single-step multiple-input-multiple-output (MIMO) frequency domain equalization is presented and discussed. We further investigate the overhead-free training-aided equalization scheme by utilizing implicit training sequence which is carried using a small portion of the signal power. An OSNR monitoring technique based on the statistical moments of the equalized signals is then proposed for in-band OSNR estimation. Finally we address the issue of combining Nyquist matched filtering and linear channel impairment compensation in a single linear MIMO equalizer, which achieves the computationally-efficient receiver's DSP solution for Nyquist-WDM systems.



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