

Coherent Optical Communication Systems in Digital Signal Processing

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ABSTRACT

For the future of optical communication systems, Digital signal processing (DSP) is an enabling technology. This system is the most promising widely viewed in the next generation for long-haul transport systems. In past, the digital carrier phase estimation demonstration in coherent receivers has stimulated an extensive attention in coherent optical communications again. In this paper, the emergence of DSP tutorial will discussed before surveying in the algorithms required in digital coherent transceivers for optical communication systems.

Keywords – Coherent, Detection, Digital Signal Processing (DSP), Signal

I. INTRODUCTION

Digital Signal Processing (DSP) emerged as an enabling technology for high capacity optical transmission systems since optical communication has undergone the evolution over the last decade. As a promising technique, digital signal processing is under consideration for optical signal modulation, fiber transmission, and signal detection and dispersion compensation. Coherent detection and DSP combination is expected to become part of optical communication systems generation and provide new capabilities that were not possible without the phase of the optical signal detection. Lately, digital coherent optical communication is the main technology for optical transport networks [1].

In future of optical networks, capacity increase will need a flexible bandwidth transmitter which is dynamically allocates bandwidth by user demand. The function is to further increase the network's spectral efficiency [2]. DSP has increase become embedded into optical transceivers when the first application specific integrated circuit (ASIC) implementing advanced algorithms appeared. ASIC are designed for 11.5-Gsymbol/s polarization-multiplexed QPSK signal has been developed, and digital coherent receiver real time operation at 46 Gbit/s bit rate has been demonstration striated by using an ASIC. In modern coherent optical

communications history, the achievement is really milestone [3]. Nascent technology culmination is the digital coherent receivers for DSP essential to operate with allow 40Gbits/s, 100Gbit/s and to deployed in core networks over fiber. It is due to polarization-mode dispersion (PMD) not support 10Gbit/s by using conventional technique.

The basic of the principle coherent optical detection is coherent measure the complex amplitude of the optical signal with the shot noise limited sensitivity. This is how information on the state of polarization can be extracted by polarization diversity uses. Coherent detection associated of DSP can be very advantageous. To increase optical receiver sensitivity and permitting a greater span loss to be tolerated, coherent detection is a promising technology. Quadrature amplitude modulation (QAM) and quadrature phase shift keying (QPSK) are an example of supported of more spectrally efficient modulations format by coherent detection. Coherent detection also allows digital signal processing for transmission impairments compensation such as chromatic dispersion (CD), PMD, signal carrier offset and spectrum restricting instead of requesting expensive physical impairments compensation links.

Next generation of optical transmission systems need adaptive fitting for time varying transmission impairments. For example, channel spectrum narrowing and random phase noise. DSP become more powerful solution for the future optical transmission links. For this tutorial, the aim is to outline the development and issues associate details with realizing a digital coherent transceiver.

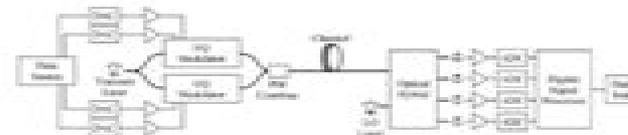


Fig. 1: Generic coherent system [8]

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Table of Contents Selected Papers On Coherent Optical Processing

1. Understanding the eBook Selected Papers On Coherent Optical Processing
 - The Rise of Digital Reading Selected Papers On Coherent Optical Processing
 - Advantages of eBooks Over Traditional Books
2. Identifying Selected Papers On Coherent Optical Processing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Selected Papers On Coherent Optical Processing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Selected Papers On Coherent Optical Processing
 - Personalized Recommendations
 - Selected Papers On Coherent Optical Processing User Reviews and Ratings
 - Selected Papers On Coherent Optical Processing and Bestseller Lists
5. Accessing Selected Papers On Coherent Optical Processing Free and Paid eBooks
 - Selected Papers On Coherent Optical Processing Public Domain eBooks
 - Selected Papers On Coherent Optical Processing eBook Subscription Services
 - Selected Papers On Coherent Optical Processing Budget-Friendly Options
6. Navigating Selected Papers On Coherent Optical Processing eBook Formats

- ePub, PDF, MOBI, and More
 - Selected Papers On Coherent Optical Processing Compatibility with Devices
 - Selected Papers On Coherent Optical Processing Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Selected Papers On Coherent Optical Processing
 - Highlighting and Note-Taking Selected Papers On Coherent Optical Processing
 - Interactive Elements Selected Papers On Coherent Optical Processing
 8. Staying Engaged with Selected Papers On Coherent Optical Processing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Selected Papers On Coherent Optical Processing
 9. Balancing eBooks and Physical Books Selected Papers On Coherent Optical Processing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Selected Papers On Coherent Optical Processing
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Selected Papers On Coherent Optical Processing
 - Setting Reading Goals Selected Papers On Coherent Optical Processing
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Selected Papers On Coherent Optical Processing
 - Fact-Checking eBook Content of Selected Papers On Coherent Optical Processing
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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