Optical Performance Monitoring

Description: This in-depth, detailed reference presents for the first time a comprehensive treatment of recent advances in optical performance monitoring. Written by leading experts in the field, the book provides an overview of recent developments in the area and the role of OPM in future optical systems and networks. Detailed discussions of various advanced techniques are provided to illustrate their principles.

FEATURES:
- Presents the principles and applications of advanced OPM techniques, together with a comparative evaluation of their effectiveness in monitoring individual parameters, such as optical signal-to-noise ratio, chromatic dispersion, and polarization mode dispersion
- Explains the principles of the various advanced optical signal processing techniques and their applications in OPM
- Examines the role and applications of OPM in optical networks, including optical transport networks, coherent optical systems, and long-haul optical transmission systems
- Discusses the current approaches of OPM in the global standard SDH/SONET

This book is ideal for technical professionals and researchers who want to understand and evaluate advanced techniques in OPM and their impact on the practical design of next-generation optical systems and networks.

- Provides a thorough and detailed discussion of the latest optical performance monitoring (OPM) techniques and their applications, presenting a comparative analysis of each method
- Contains high-quality technical contributions from leading experts, covering both principles and practical aspects of advanced OPM techniques
- Addresses challenges and opportunities related to OPM in next-generation reconfigurable optical systems and networks

Contents:
- Optical Performance Monitoring: Perspectives and Challenges
- Optical Signal-to-Noise Ratio Monitoring
- Chromatic Dispersion Monitoring
- Polarization Mode Dispersion Monitoring
- Timing Misalignment Monitoring
- Optical Performance Monitoring based on Asynchronous Amplitude Histograms
- Optical Performance Monitoring based on Asynchronous Delay-Tap Sampling
- Optical Performance Monitoring based on Optical Sampling
- Optical Performance Monitoring based on RF Pilot Tones
- Optical Performance Monitoring based on Electronic Digital Signal Processing
- Optical Performance Monitoring based on Nonlinear Optical Techniques
- Optical Performance Monitoring of Optical Phase-Modulated Signals
- Optical Performance Monitoring for Coherent Optical Systems
- Optical Performance Monitoring in Optical Transport Networks
- Optical Performance Monitoring in Optical Long-Haul Transmission Systems

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