

Customized Energy-Saving Process for ODN Optical Distribution Networks in Power Systems



Customized Energy-Saving Process for ODN Optical Distribution Net



To the best of our knowledge, to date, this article is the first most comprehensive survey on energy saving research and standardization on PON.



It accounts for all the gains and losses within an optical communication system, making it a challenging task for network designers and planners. A properly power-budgeted network results in ...



This paper proposes a flexible, energy-efficient, time and wavelength division multiplexed (TWDM) PON architecture that has the capability of centralized optical line terminal (OLT) resource ...



The most important energy management and power-saving methods for Optical Line Terminals (OLTs) and Optical Network Units (ONUs), as key OAN components, are overviewed in ...



These aspects of energy-efficient optical network design are examined, along with issues related to mobile and optical network convergence, nonlinear optics and optical processing, and computer and ...



In this paper, energy-efficient traffic data aggregation and energy-aware routing are presented to increase the network lifetime of the system. The traffic data aggregation reduces ...



With such an increase in bandwidth demand, the power saving mechanism has become a key research issue in the PON design. SUMMARY. The present document discloses techniques for power...



Two flow-aware mechanisms, namely, the Flow-aware load adaptive scheme (FA-LAR) and the flow-aware distance adaptive scheme (FA-DAR), are utilized in this study. The goal is to ...



Power consumption of devices and network functionalities in optical infrastructures is reviewed. Then, possible short-, medium-, and long-term solutions to reduce and make energy consumption scalable ...

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