



SEMINAR ON TELECOMMUNICATION



Faculty of Technology
Afyon Kocatepe University



Optical Line Protection in Fiber to the Home (FTTH) Systems

Abstract : Fiber to the Home (FTTH) networks represents a major focus for industry professionals and researchers in Optical Telecommunications. Thanks to the very high data rates (on the order of terabits per second) that optical fiber can offer, and its minimal attenuation in the C-band (around 1550 nm), this transmission medium is the ideal solution for carrying large volumes of information, such as video on demand, television channels, and massive databases. Today, subscribers worldwide are connected to their homes via optical fiber with very high data rates, benefiting from internet services, telephony, and cable television (CATV) through optoelectronic terminals. The current challenge is how to reach subscribers located hundreds of kilometers away with stable data rates, given that the reference distance between a data center and an optical terminal is only 5 kilometers.

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