Abstract

Wireless communications is one of the fastest media used worldwide today. However the wireless signals suffer from severe loss along the transmission as well as atmospheric attenuation. This paper proposes a solution to overcome this problem by using low-attenuation, electromagnetic interference free optical fiber. This can be achieved by using Radio Over Fiber (ROF) which is an integration of optical fiber for radio signal transmission within a network. This paper simulates a WCDMA Radio Over Fiber which results in a lower Bit Error Rate (BER) as compared to wireless transmission.

References

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Index Terms
Keywords
AWGN  BER  BPSK  DBPSK  PSK  RAP  ROF  QPSK  QOS  WCDMA