Performance Evaluation of Proposed OFDM

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Packet Error Rate with AWGN
(Packet Length = 1000 byte)

Packet Error Rate versus Received Power
Packet Error Rate with AWGN

(Packet Length = 64 byte)

Packet Error Rate versus Received Power

Packet Error Rate in Multipath Propagation with AWGN

(Exponential profile Rayleigh fading channel, Delay Spread = 25 nsec)

Packet Error Rate versus Received Power
Packet Error Rate in Multipath Propagation with AWGN
(Exponential profile Rayleigh fading channel, Delay Spread = 50 nsec)

Packet Error Rate versus Received Power

Packet Error Rate in Multipath Propagation with AWGN
(Exponential profile Rayleigh fading channel, Delay Spread = 100 nsec)

Packet Error Rate versus Received Power

Packet length = 1000 byte

Pr (dBm)

Packet Error Rate

-60 -70 -80 -90

10^{-3} 10^{-2} 10^{-1} 10^0

30Mbit/s
20Mbit/s
15Mbit/s
10Mbit/s
5Mbit/s
Packet Error Rate in Multipath Propagation with AWGN

(Exponential profile Rayleigh fading channel, Delay Spread = 150 nsec)

Packet Error Rate versus Received Power

Packet length = 1000 byte

Packet Error Rate in Multipath Propagation with AWGN

(Exponential profile Rayleigh fading channel, Delay Spread = 250 nsec)

Packet Error Rate versus Received Power

Packet length = 1000 byte
Packet Error Rate in Multipath Propagation with AWGN
(Exponential profile Rayleigh fading channel, Delay Spread = 25 nsec)

Packet Error Rate versus Received Power

Packet Error Rate in Multipath Propagation with AWGN
(Exponential profile Rayleigh fading channel, Delay Spread = 50 nsec)

Packet Error Rate versus Received Power
Packet Error Rate in Multipath Propagation with AWGN
(Exponential profile Rayleigh fading channel, Delay Spread = 100 nsec)

Packet Error Rate versus Received Power

Packet Error Rate in Multipath Propagation with AWGN
(Exponential profile Rayleigh fading channel, Delay Spread = 150 nsec)
Packet Error Rate in Multipath Propagation with AWGN

(Exponential profile Rayleigh fading channel, Delay Spread = 250 nsec)

Packet Error Rate versus Received Power

Packet Error Rate in Multipath Propagation with AWGN

Information data rate = 5Mbit/s, Coding rate = 1/2

Packet Error Rate versus Received Power
Packet Error Rate in Multipath Propagation with AWGN

Information data rate = 10Mbit/s, Coding rate = 1/2)

Packet Error Rate versus Received Power

Packet length = 1000 byte

Information data rate = 15Mbit/s, Coding rate = 3/4)

Packet Error Rate versus Received Power

Packet length = 1000 byte

Packet Error Rate in Multipath Propagation with AWGN
Packet Error Rate in Multipath Propagation with AWGN

Information data rate = 20Mbit/s, Coding rate = 1/2)

Packet Error Rate versus Received Power

Packet Error Rate in Multipath Propagation with AWGN

Information data rate = 30Mbit/s, Coding rate = 3/4)

Packet Error Rate versus Received Power
Packet Error Rate in Multipath Propagation with AWGN

Information data rate = 5Mbit/s, Coding rate = 1/2)

Packet Error Rate versus Received Power

Packet length = 64 byte

-90 -80 -70 -60
Pr (dBm)

Packet Error Rate

-3 -2 -1

τ_{RMS} = 250ns
τ_{RMS} = 150ns
τ_{RMS} = 100ns
τ_{RMS} = 50ns
τ_{RMS} = 25ns

Packet Error Rate in Multipath Propagation with AWGN

Information data rate = 10Mbit/s, Coding rate = 1/2)

Packet Error Rate versus Received Power

Packet length = 64 byte

-90 -80 -70 -60
Pr (dBm)

Packet Error Rate

-3 -2 -1
Packet Error Rate in Multipath Propagation with AWGN

Information data rate = 15Mbit/s, Coding rate = 3/4)

Packet Error Rate versus Received Power

Packet Error Rate = $10^n$

Information data rate = 20Mbit/s, Coding rate = 1/2)

Packet Error Rate versus Received Power
Packet Error Rate in Multipath Propagation with AWGN

Information data rate = 30Mbit/s, Coding rate = 3/4)

Packet length = 64 byte

Packet Error Rate versus Received Power

Packet Error Rate versus RMS Delay Spread

Packet Error Rate in Multipath Propagation

(Exponential profile Rayleigh fading channel, Packet length = 1000 byte)
Packet Error Rate in Multipath Propagation
(Exponential profile Rayleigh fading channel, Packet length = 64 byte)

Packet Error Rate versus RMS Delay Spread

Packet Error Rate with Phase Noise
(Packet Length = 1000 byte)

Packet Error Rate versus $\phi^2_{RMS}$
Packet Error Rate with Co-channel Interference
(Packet Length = 1000 byte)

Packet Error Rate

Packet Error Rate with Adjacent Channel Interference
(Packet Length = 1000 byte)