COLLATE

Digital Communication

Videos & References

Unit 3-4

Syllabus

UNIT – III

Analysis of digital receiver, Prediction Filter, Design and Property of Matched filter, Correlator Receiver,
Orthogonal Signal, Gram-Schmidt Orthogonalization Procedure, Maximum likelihood receiver, Coherent receiver
design, Inter Symbol Interference, Eye Pattern.

UNIT – IV

Coherent Binary Schemes: ASK, FSK, PSK, QPSK, MSK, G-MSK. Coherent M-ary Schemes, Incoherent
Schemes (DPSK and DEPSK), Calculation of average probability of error for different modulation schemes,
Power spectra of digitally modulated signals, Performance comparison of different digital modulation schemes.
Review of 2 Latest Research Paper.

UNIT 3

Digital Receiver	Video	Ref
Prediction Filter	Video	Ref
Design and Property of Matched filter	Video	Ref
Correlator Receiver	Video	Ref
Maximum Likelihood receiver	Video	
Orthogonal Signal	Video	Ref
Gram-Schmidt Orthogonalization Procedure	Video	Ref
Inter Symbol Interference	Video	Ref
Eye Pattern	Video	Ref

UNIT 4

ASK (Amplitude Shift Keying)	Video	Ref
FSK (Frequency Shift Keying)	Video	Ref
PSK (Phase Shift Keying)	Video	Ref
QPSK (Quadrature Phase Shift Keying)	Video	Ref
MSK (Minimum Shift Keying)	Video	Ref
G-MSK	Video	Ref
Coherent & Non-coherent techniques	Video	Ref
DPSK (Differential Phase Shift Keying)	Video	Ref
DEPSK	Video	Ref
Probability of error for different modulation schemes	Video	Ref
Performance comparison of different digital modulation schemes	Video	Ref

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