DS-SS W N=40; 2-PAM, ACINE (114; AWGN $S_N = \frac{N_0}{40}$) d[M] = S[M] - 0.5 S[M-4] $\times [M] = [M-1, -1, +1, +1, -1, +1, +1, +1, +1]$ $\times [M] = [M-1, -1, +1, +1, +1, -1, +1, +1]$ $\times [M] = [M] + [M]$ $\times [M] = [$

b) Might p[n]3, #? ISI, & P. w/ SBSD $P[n] = \sum_{n=0}^{N-1} \sum_{k=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} \sum_{k=0}^{N-1} x[\ell] J[nN+\ell]$ $E[n] = \sum_{n=0}^{N-1} \sum_{k=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{k=0}^{N-1} \sum_{k=0}^{N-1} x[\ell] J[nN+\ell]$ $E[n] = \sum_{n=0}^{N-1} \sum_{k=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{k=0}^{N-1} \sum_{k=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} \sum_{k=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{k=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} \sum_{k=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} \sum_{k=0}^{N-1} x[\ell] J[nN+\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$ $P[n] = \sum_{n=0}^{N-1} x[\ell] J[nN+\ell-m]$

 $P[n] \neq 0 \iff \exists \ell \in [0, N-1] : \times [\ell]^{\sharp} \text{ and } (x * d) [nN * \ell] \neq 0$ $\times [\ell] \neq 0 \quad \forall \quad \ell \in [0, N-1]$ $\cdot (x * d) = [nN * \ell] \neq 0 \iff 0 \iff nN * \ell \in [3] \iff \ell \in [3-nN) \text{ and } \ell \in [3-nN] \text{$

1 7 [n] = 10 & [n] & S[n-1]

There is ISI because ptn3 of Stn]

We can find the Re by using the following formula (taken from a different chapter, but equally applicable)

$$P_{e} \approx O\left(\frac{16011 \, q_{min}}{3 \, d_{min}}\right) = 400 \, O\left(\frac{510.5}{10.5}\right) = O\left(\frac{10.5}{10.5}\right)$$

0382 W & L IZIST ([Lilo to 1) (6

[174] (bea) Was 3 = [w-fruld] 119] x Cd 3 3 = [m]

[(x d) [m] = (-1, -1, -0.5, +1.5, +0.5, +1.5, +0.5, +1.5, +0.5, +0.5]

p[0] = 1+1+1+1+05+15+05+15+05 + 1+1+1+1=10]q

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