





	1
$Y_1(t) = \sum_{n=0}^{N(t)} A_n(t) \cdot (OS_{n}(t))$	
$Y_{R}(t) = \sum_{n=0}^{N(t)} \Delta_n(t) \cdot \sin \phi_n(t)$ where $\phi_n(t) = 2\pi f_c T_n(t) - \phi_{pn} - \phi_o$	
3.2. Autocorrelation Gross-Correlation PSD	
Assumption: $d_n(t) \approx d_n$, $T_n(t) \approx T_n$ for is quasi-static. No LoS , $L_n(t)$ is uniformly $d_n(t) = 2\pi \int_{-\infty}^{\infty} T_n(t) dt$	-
$\varphi_{n}(t) = 2\pi f_{c} \tau_{n} - 2\pi f_{pn} t - \varphi_{p}$	
$\begin{cases} Y_{i}(t) = \sum_{n} d_{n} \cdot cos\phi_{n}(t) \\ Y_{o}(t) = \sum_{n} d_{n} \cdot sin\phi_{n}(t) \end{cases}$	
O TIY (L) 7- 5 FID. 7. E. [(Sp. Ct)]	
as Porti is uniformly distributed. On E-7.7. (No Los))
on the hard	
O Similarly. El Yait) =0	_

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3) E[Y2(t) & Ya(t)]

= E[Ednt cospn(t) Edm Sin pm(t)]

= ZZ E[dmdn]

E[coson(t). sinon(t)]

= \ Eldn] E[cosquit) sinquit)]

= ZE[dn]·E[zsinzent)]

=> 121t1 and Volt) are uncorrelated

If Yzlt) and Vat ore Gaussian,

they are independent.

(G) Ayz(t, t+2) = E[Yz(t) Yz(t+2)]

= # Z ELdi] · E [cospit) · cospi(++2)]

Pn(t)= 2πfc [n-2πfont-βο φη(t+2)=2πfc [n-2πfont+2)-βο

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