

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

(c)  $P_b = \int_0^{\infty} P_b(x) f(x) dx$   
 $= \int_0^{\infty} \frac{1}{2} e^{-x} (1 + \sqrt{1 + 4x}) dx$   
Using dimensionless Q term  
 $= \frac{1}{2} \int_0^{\infty} \left(1 + \sqrt{1 + \frac{4x}{\gamma}}\right) e^{-x} dx$  with  $\gamma = \frac{E_b}{N_0}$   
 $= \frac{1}{2} \int_0^{\infty} \left(1 + \sqrt{1 + \frac{4x}{\gamma}}\right) e^{-x} dx = \frac{1}{2} \int_0^{\infty} \left(1 + \sqrt{1 + \frac{4x}{\gamma}}\right) e^{-x} dx$  where we have used an integral table to evaluate the integral  
(d)  $P_b = \frac{1}{2}$   
(e) 10FSK,  $P_b = \frac{1}{2} = 10^{-3}$ ,  $\gamma = 250$ , 10FSK: Show above get  $\gamma = 3209.5$   
Probably  $\approx \frac{3209.5}{10} = 320.95$   
Also will accept  $\approx 10(PSK) = 822 \Rightarrow \approx 5.207$

11.  $P_b = \int_0^{\infty} P_b(x) f(x) dx$   
 $P_b(x) = \frac{1}{2} e^{-x}$   
 $P_b = \frac{1}{2} \int_0^{\infty} e^{-x} (1 + \sqrt{1 + 4x}) dx = \frac{1}{2} M$   
But from 6.45  
 $M(x) = \left(1 + \frac{4x}{\gamma}\right)^{-\frac{1}{2}}$   
 $\therefore P_b = \frac{1}{2} \left(1 + \frac{4x}{\gamma}\right)^{-\frac{1}{2}}$   
For  $M = 4$ ,  $\gamma = 10$   
 $P_b = 3.33 \times 10^{-3}$

12. Script used to plot the average probability of bit error for BPSK modulation in Rayleigh fading  $m = 1, 2, 4$ .  
Initializations  
avg BER = 0; i = 1; gamma\_bar = 10; (avg BER/10); m = [1 2 4];  
line = ['-o', '-r', '-b']  
for j = 1: size(m, 2)  
for i = 1: size(gamma\_bar, 2)  
Pb\_bar(i, j) = (1/pi) \* quad('rayag\_BEP', 0, pi/2, [], [], gamma\_bar(i), m(i), i);  
end  
figure(i);  
hold on;  
hold on;  
end  
xlabel('Average BER ( gamma\_bar ) in dB'); ylabel('Average bit error probability ( P\_b ) '); title('Rate of P\_b for BPSK modulation in Rayleigh fading for m = 1, 2, 4'); legend('m = 1', 'm = 2', 'm = 4');

[Download PDF version of :](#)  
**Solution Manual Introduction To Radar Systems**