
Homework III

1. (20%) Implement a Rayleigh fading channel simulator based on the Filtered Gaussian Noise method
 - Plot the channel output for $f_m T = 0.01, 0.1$ and 0.5 ($t/T = 0 \sim 300$)
 - Plot the channel output autocorrelation for $f_m T = 0.01, 0.1$ and 0.5 ($f_m \tau = 0 \sim 10$)
2. (20%) Implement a Rayleigh fading channel simulator based on the Sum of Sinusoids method
 - Plot the channel output for $M = 8$ and 16 ($f_m T = 0.01, 0.1, 0.5$ and $t/T = 0 \sim 300$)
 - Plot the channel output autocorrelation for $M = 8$ and 16 ($f_m \tau = 0 \sim 10$)
3. (10%) Discuss and compare the results of different cases.
 - 助教: EECS Room 605, TWNTHUCOM5170@gmail.com
 - Due Date: **11/04** (You shall submit your report and program to the class email account.)