

Final Exam

Programs

[Final11.m](#): the first part of problem 1

[Final12.m](#): the second part of problem 1

[Final11_extra.m](#) simulation with binary BCH code

[Final12_extra.m](#) simulation in barrage noise jamming and AWGN

[Final21.m](#): the first part of problem 2

[Final22.m](#): the second part of problem 2

[Final21_extra.m](#) simulates a pre-detection selective combining diversity receiver for Rayleigh fading channels

[Final31.m](#): the first part of problem 3 using DS-CDMA

[Final32.m](#): the second part of problem 3 using DS-CDMA

[Final31_fh.m](#): the first part of problem 3 using slow FH-MA

[Final32_fh.m](#): the second part of problem 3 using slow FH-MA

Functions

[Awgn.m](#): adds additive white Gaussian noise to signal

[Awgn_complex.m](#): adds complex additive white Gaussian noise to input signal

[Bingen.m](#): generates random +1/-1 sequence

[Fade.m](#): generates Rayleigh fading

[Fade_fs.m](#): generates frequency selective Rayleigh fading.

[Fade_diversity.m](#): generates two channels of Rayleigh fading.

[Fh.m](#): generates orthogonal complex exponential matrix for slow FH-MA

[Ds_mod.m](#): DS_SS modulation

[Ds_demod.m](#): DS_SS demodulation