ECE 544: Dig. Comm. (Session 44)

Final Exam 120 minutes
  closed book
  1 (one) 8.5" x 11" crib sheet, both sides, written with your own hand.
  calculators OK

Total Points 210 → only 200 will count.

Seven problems.

Study Old Test & HWs we've done.

Web Page for Old Exams/Finals. (No solutions) (from JVK!)
Reviewed Prob.

Chap 5 → baseband pulse, architecture.
                AWGN
                General testing LRT
                Review noise fig. /noise equiv. temps etc.
                Put Boltzmann on crib $1.38 \times 10^{-23}$ J/K

Chap 6 → linear modulators, etc.
                Mercer, KLT, orth. functs → Not on test.
                BPSK imperfect φ ref. → PLL
Chap 7: Non-coherent. \[\rightarrow\] Know structure of Rx.
Formulas for prob. of error.

Chap 8: Nyquist Criterion
Raise Cosine $\beta$
\[\uparrow\]
Bandwidth Expansion factor.

Ditch the Complex Envelope