

ECE 580

HOMEWORK 4

Due Nov. 21st, 2014

1. *a* Recalculate the constant C_n in the Butterworth filter example on p. 149, assuming that the specifications are met exactly at the passband limit f_p .

b. What is the loss at the stopband limit frequency f_s ?

2. Derive the relation for the highest Q_p of an n^{th} -order Butterworth filter.