ECE 580 Make-Up Project

Due Nov. 28, 2018

Analyze the Rauch filter for ideal opamp. Find the dc gain H(0), pole frequency ω_o and pole Q. What is the smallest capacitance spread C_1/C_2 if the dc gain, pole frequency and pole Q are given?

1. Prove that the phase shift of a lumped linear two-port is an odd function of the frequency, so that $\beta(-\omega) = -\beta(\omega)$.