(Solution)

Analog Electronic Circuits

Department of Electrical and Computer Engineering

Seoul National University

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Quiz #6

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Student ID number:

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1. Consider the filter shown in Fig below. Compute the sensitivity of the pole and zero frequencies with respect to C_1 , C_2 , and R_1 .

$$\frac{V_{r,t}}{V_{r,h}} = \frac{c_{t,t}}{c_{t,t}} \frac{R_{t,t}}{R_{t,t}} \frac{V_{t,h}}{V_{t,h}} = \frac{c_{t,t}}{R_{t,t}} \frac{V_{t,h}}{R_{t,t}} \frac{V_{t,h}}{R_{t,t}} = \frac{c_{t,t}}{R_{t,t}} \frac{C_{t,t}}{R_{t,t}} = \frac{c_{t,t}}{R_{t,t}} \frac{V_{t,h}}{R_{t,t}} \frac{V_{t,h}}{R_{t,t}} = \frac{c_{t,t}}{R_{t,t}} \frac{V_{t,h}}{R_{t,t}} \frac{V_{t,h}}{R_{t,t}} = \frac{c_{t,t}}{R_{t,t}} \frac{V_{t,h}}{R_{t,t}} \frac$$