RUPRECHT-KARLS-UNIVERSITÄT HEIDELBERG



Exercise: Time Domain

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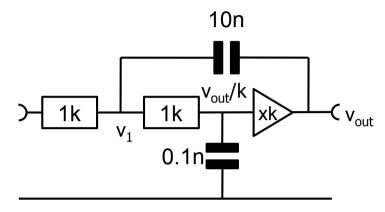


- A filter is made up of a low-pass and a (buffered) high-pass with same corner frequencies
- What is the time response of this filter to a unit step ?





Derive H[s] for the following active filter.



- For which k do you get a divergence ?
- For k=1, derive the step response of the circuit
- Simulate the circuit and compare quantitatively.