

Electronics II. laboratory

1. measurement: RLC four-poles

Test questions

1. What mathematical operator describes the behaviour of a low-pass filter?
2. What mathematical operator describes the behaviour of a hi-pass filter?
3. Draw the Bode plot (amplitude and phase) of a low-pass filter!
4. Draw the Bode plot (amplitude and phase) of a hi-pass filter!
5. Draw the Bode plot (amplitude) of a band-pass (RLC) filter!
6. Draw the output waveform of a low-pass filter if the input is square wave!
7. Draw the output waveform of a hi-pass filter if the input is square wave!
8. What does a strongly differentiating filter mean?
9. What is the formula for the cutoff frequency of a RC filter?
10. What is the formula for the resonance frequency of a LC filter?
11. Define the time constant using a time diagram!
12. What are the formulae for time constants of RC and LC circuits?