Nodal Analysis Laboratory I

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- 1 Nodal analysis method
- 2 theoretical calculations
- 3 real measurements
- 3.1 Circuit A

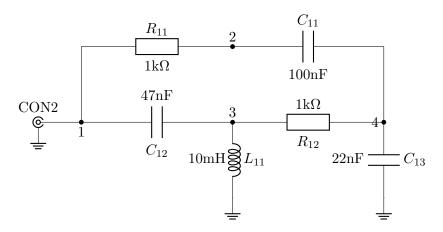


Figure 1: circuit A

- 3.2 Circuit B
- 4 summery

Circuit A:				
Freq [kHz]:	Channel 1 [V]:	Channel 2 [V]:	Angle[°]:	
Node 1:				
1kHz	1.117	1.115		
5kHz	2	1.119		
9kHz	1.121	1.119		
Node 2:				
1kHz	1.117	0.830	-19.5	
5kHz	1.122	0.338	14.0	
9kHz	1.121	1.342	-11.7	
Node 3:				
1kHz	1.117	0.043	140,1	
5kHz	1.122	0.952	135.0	
9kHz	1.121	1.864	28.6	
Node 4:				
1kHz	1.117	0.422	37.3	
5kHz	1.122	0.493	43.9	
9kHz	1.121	1.302	13.6	

Table 1: evaluation board measurements for Circuit A

Circuit B:				
Freq [kHz]:	Channel 1 [V]:	Channel 2 [V]:	Angle[°]:	
Node 1:				
1kHz				
5kHz				
9kHz				
Node 2:				
1kHz	1.117	0.250	28.1	
5kHz	1.122	0.245	-42.9	
9kHz	1.121	0.921	68.0	
Node 3:				
1kHz	1.117	0.486	22.6	
5kHz	1.122	0.332	69.0	
9kHz	1.121	1.279	24.0	
Node 4:				
1kHz	1.117	0.502	20.6	
5kHz	1.122	1.077	-13.5	
9kHz	1.121	0.503	-114.5	

Table 2: evaluation board measurements for Circuit B

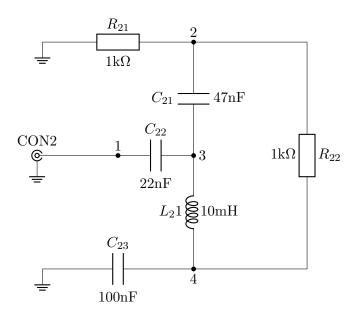


Figure 2: circuit B