

task_pdkggtyexxy1ktu3_with_calculation

Student Group

First Name	Surname	Matrikel Nr.

Table of Contents

Exercise E1.1 Impedances at different Frequencies (written test, approx. 18 % of a 60-minute written test, WS2022)	2
--	---

complex impedance, exam ee1 WS2022

Exercise E1.1 Impedances at different Frequencies (written test, approx. 18 % of a 60-minute written test, WS2022)

Exercise E1.1 Impedances at different Frequencies (written test, approx. 18 % of a 60-minute written test, WS2022)
Result: A series circuit means that the current is constant on every component.
The equivalent impedance for R and L combined is given by
Parallel circuit means that the voltage is the same on R2 and C2
Therefore the resulting current of the parallel circuit is given as:

Solution
\begin{align*} R_1 &= 1.00 \sim \Omega \\ R_2 &= 10.0 \sim \Omega \end{align*}
A series circuit means that the current is constant on every component.
The equivalent impedance for R and L combined is given by
Parallel circuit means that the voltage is the same on R2 and C2
Therefore the resulting current of the parallel circuit is given as:

From: https://wiki.mexle.org/ - MEXLE Wiki
Permanent link: https://wiki.mexle.org/electrical_engineering_1/task_pdkggyexxy1ktu3_with_calculation?rev=1680242157
Last update: 2023/03/31 07:55
QR code