# Laboratorijas darba 1 atskaite "Vienkru elektrisku shmu modelana"

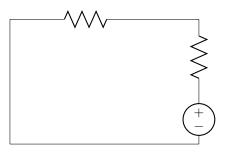
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## Chapter 1

## Teortisk daa

Uzdevums bija apinat spriegumus uz rezistoriem dotaj shm. Sprieguma avota V1 sprieguma vrtbu U (Voltos) izvlieties daskaitli, kas btu Jsu apliecbas pdjie trs cipari dalti ar 10. Mans apliecbas numurs ir 171REB112, tatd 112/10=11.2, tad no tas skojam, k V1 = 11.2 (Volti), R1 ir apliecbas pdjo 3 ciparu otrais numurs+1, R2 ir apliecbas numura pdjais cipars +1. Ttad 171REB112, 112 ir pdejie trs cipari mana apliecbas numura, lai noteikt ar ko ir viends R1,mms vajag pie otra cipara (no skaita 112) pievienot 1. No tam sekojam 1+1=2, tad R1=2.Lai noteikt ar ko ir viends R2, mms vajag pie trea cipara (no skaita 112) pivienot ar 1, ka iepriekaja gadjuma. Tad, 2+1=3 R2=3.



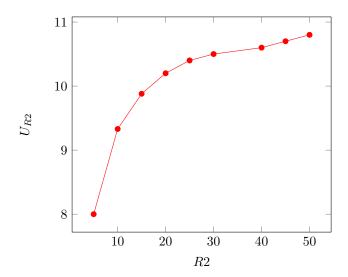


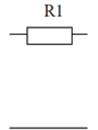
Figure 1.1:  $U_{R2} = f(R2)$  grafiks, pc sweep simulcijas datiem.

## 1.1 des aprins

R1	2 Om
R2	3 Om
$\overline{V1}$	11.2 V
$\overline{U_{R2}}$	20
$\overline{U_{R1}}$	20

Table 1.1: Sprieguma un pretestbas tabula

Figure 1.2: Shma



# Chapter 2

## Praktisk daa

#### 2.1 Darbs ar GEDA programmm

#### 2.1.1 darbs ar gschem

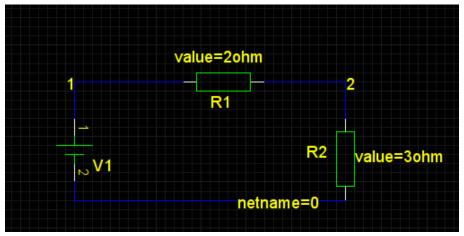


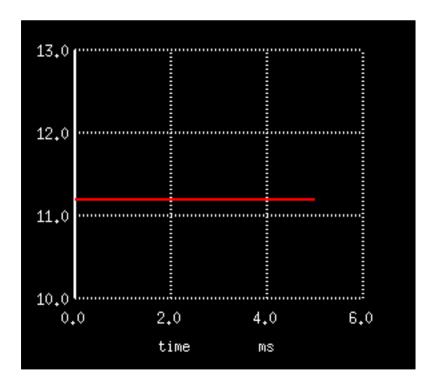
Figure 2.1.1: Elektriska shma gschem vid

#### 2.1.2 darbs ar gnetlist



Figure 2.1.2: Rezulttu parbaude ar gnetlist

#### 2.1.3 darbs ar ngspice



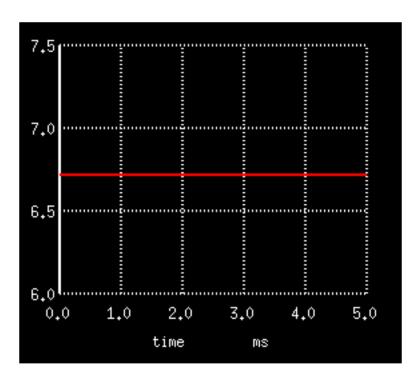
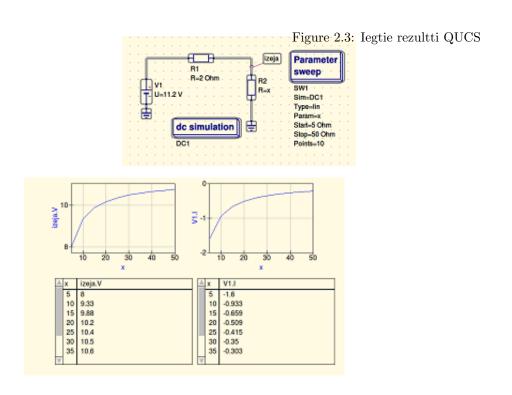


Figure 2.1: NGspice iegtaie sprieguma grafiki

## 2.2 Darbs ar QUCS programmm

Figure 2.2: QUCS Shmas modelis

#### 2.2.1 Tabula un grafiks



# **Bibliography**

- [1] Berga, I,. Ceske, E., ekstere, I. u.c. Siguldas novadmcba. (Latvia) [Siguldas novadmcba] Berga, I,. Ceske, E., ekstere, I. u.c. Rga: Preses nams, 2002. 186 lpp. ISBN 9984-19-250-4.
- [2] Joseph Heller Catch-22. Published September 4th 2004 by Simon and Schuster (first published 1961)