P01 report

Muhammed Juneer

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### Chapter 1

## Theoretical part

#### 1.1 Circuit calculation

Theoretical calculation of the circuit V1=1.7V  $R1=2\Omega$  R2=80hm

$$VR = (R \times VT)/RT$$
  
 $VR1 = (R1 \times V1)/RT$ 

$$VR1 = (R1 \times V1)/RT = V$$

$$VR2 = (R2 \times V2)/RT = V$$

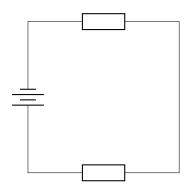
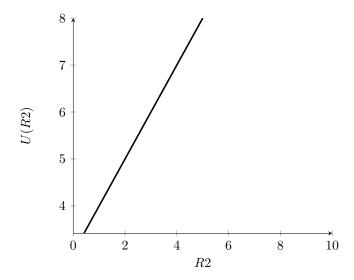


Figure 1.1: Electrical circuit diagram

V1	V
R1	ohm
R2	ohm
UR1	V
UR2	V



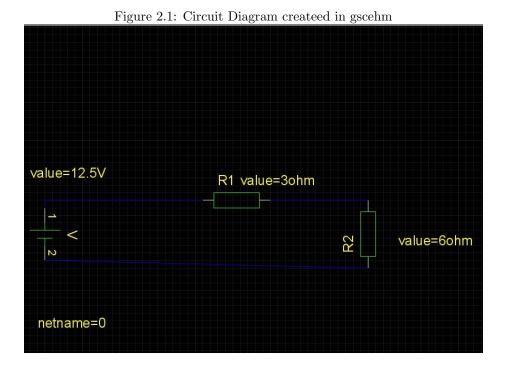
## Chapter 2

# Practical part

Practical Calculation

### 2.1 Work with GEDA programs'

### 2.1.1 'Work with gschem'



#### 2.1.2 'Work with gnetlist'

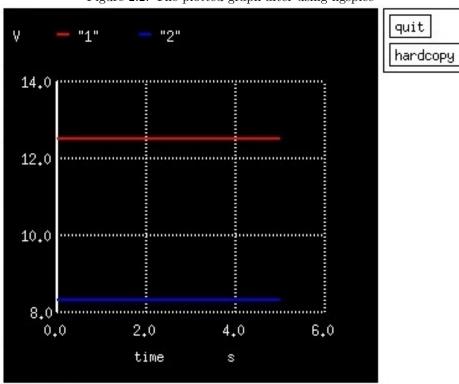


Figure 2.2: The plotted graph after using ngspice

### 2.2 Work with QUCS programs'

Image of Schematics

DC simulation

Curve and Table obtained from DC Simulation

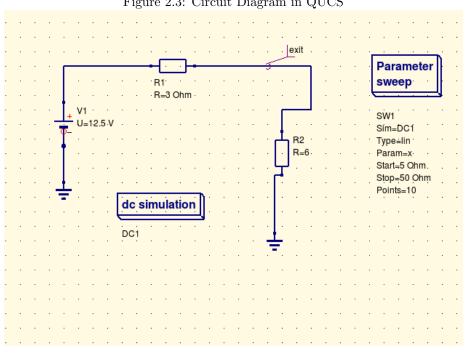


Figure 2.3: Circuit Diagram in QUCS

Figure 2.5: The following graph shows the DC simulation for the various obtained values

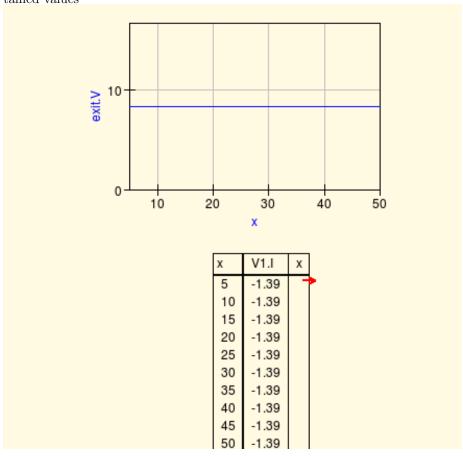


Figure 2.6: The following graph shows the Sweep Simulation for the various obtained values

