#### **Table of Contents**

-0.2443

```
R1=1;R2=2;R3=3;R4=4;R5=5;R6=6;R7=7;
E1=1; E2=2; E3=3;
%Norakstit koeficentus
R = [R1 + R2 + R3 - R2 0;
 -R2 R2+R4+R5 -R5;
 0 -R5 R5+R6+R7]
E = [E1 - E2 - E3]'
%Vinai jabut E = [E1;
     E3] Bet mes ar transponejam ar zime '
%Meklesim kontrstravu Ik - Istrava Kkonturs
Ik = R\E % gausa metode ar zime \
R =
 6
   -2
 -2
   11
    -5
   -5
    18
E =
 1
 -2
 -3
Tk =
 0.0735
-0.2795
```

## Uzdevums: Atrast IR2, UR2, PR2 -?

## **Cits variants**

## **Meklesim konturstrave**

0.2650 -0.2650

#### Uzdevums atrast IR 3 UR3 PR3 - ?

#### **Cits variants**

Tagad mums bus laika mainigais signals

```
t = 0:0.01:1;
E1 = sin(2*pi*3*t);
%E2 = 5; %ka pareizi pierakstit kanstanti?
E2 = 5+zeros(size(t));
E3 = cos(2*pi*7*t);
```

## risinasim vienadojumu sistemas

lai atrast konturstravas, tagad jau mums ir 101 3 vienadojumu sistema

```
E = [E1; -E2; -E3];

Ik = R \setminus E;
```

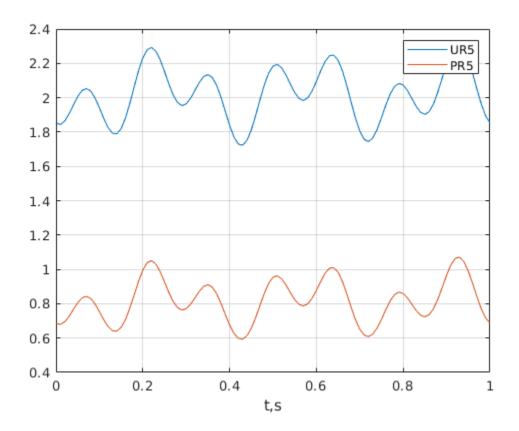
#### **Uzdevums** bus

```
atrast un uzzimet UR5, PR5 - ?

IR5 = Ik(3,:)-Ik(2,:);
UR5 = IR5*R5;
```

### zimesim

```
plot(t,UR5,t,PR5)
legend('UR5','PR5')
xlabel('t,s')
grid % grid lai uztaisit grafika rutinu
```

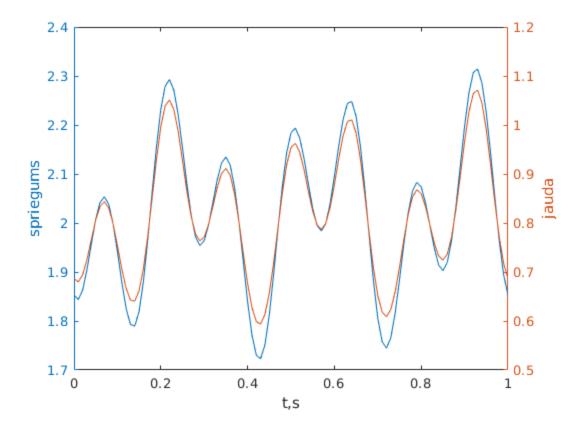


## Cits panemiens, lai nebutu pretruna

ka uz y asi gan Volti, gan Wati

```
figure
yyaxis left
plot(t,UR5)
ylabel('spriegums')

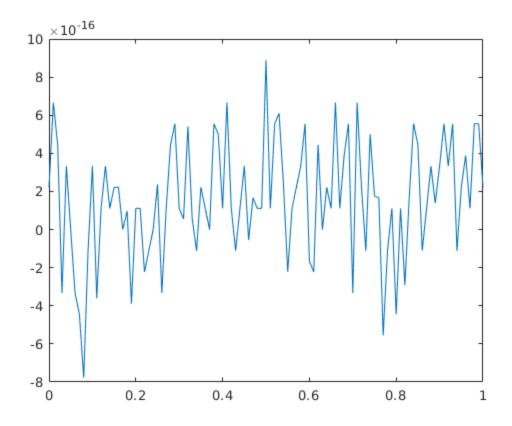
yyaxis right
plot(t,PR5)
ylabel('jauda')
```



# Rezultatu parbaude

parbaudisim Kirhofa spriegumu likums 3.konturam UR5+UR6+UR7==-E3 Parnesisim visu viena puse UR5+UR6+UR7+E3==0 un pielidzinasim kadam mainigajam  $Utst\ Utsts=UR5+UR6+UR7+E3$ ; un to uzzimesim

```
UR6 = Ik(3,:)*R6;
UR7 = Ik(3,:)*R7;
Utst = UR5+UR6+UR7+E3;
figure(3),plot(t,Utst)
```



# velamais rezultats 0

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