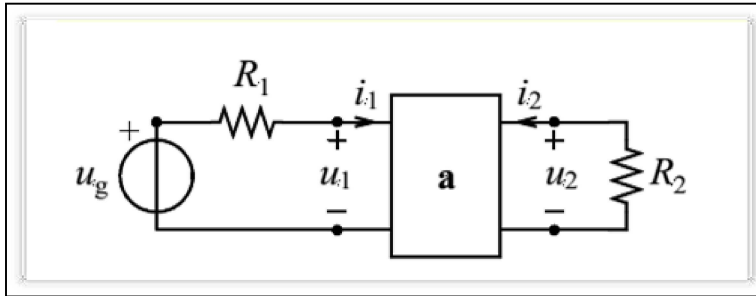


Figure 1: a-параметри мреже



```
(%i1) jednacine: [ug = R1*i1 + u1,
u2 + R2*i2 = 0,
u1 = a11*u2 + a12*(-i2),
i1 = a21*u2 + a22*(-i2)];
```

```
(%o1) [ug=u1+R1 i1, u2+R2 i2=0, u1=a11 u2-a12 i2, i1=a21 u2-a22 i2]
```

```
(%i2) promenljive: [u1, u2, i1, i2];
```

```
(%o2) [u1, u2, i1, i2]
```

```
(%i3) odziv: linsolve(jednacine, promenljive);
```

```
(%o3) [u1 =  $\frac{(a_{12} + R_2 a_{11}) u_g}{R_1 (a_{22} + R_2 a_{21}) + a_{12} + R_2 a_{11}}$ , u2 =
 $\frac{R_2 u_g}{R_1 (a_{22} + R_2 a_{21}) + a_{12} + R_2 a_{11}}$ , i1 =  $\frac{(a_{22} + R_2 a_{21}) u_g}{R_1 (a_{22} + R_2 a_{21}) + a_{12} + R_2 a_{11}}$ , i2
= -  $\frac{u_g}{R_1 (a_{22} + R_2 a_{21}) + a_{12} + R_2 a_{11}}$ ]
```

```
(%i4) A: ev(u2, odziv)/ug;
```

```
(%o4)  $\frac{R_2}{R_1 (a_{22} + R_2 a_{21}) + a_{12} + R_2 a_{11}}$ 
```

```
(%i5) Ru: ev(u1/i1, odziv);
```

```
(%o5)  $\frac{a_{12} + R_2 a_{11}}{a_{22} + R_2 a_{21}}$ 
```

```
(%i6) ev(i1, odziv);
```

```
(%o6)  $\frac{(a_{22} + R_2 a_{21}) u_g}{R_1 (a_{22} + R_2 a_{21}) + a_{12} + R_2 a_{11}}$ 
```