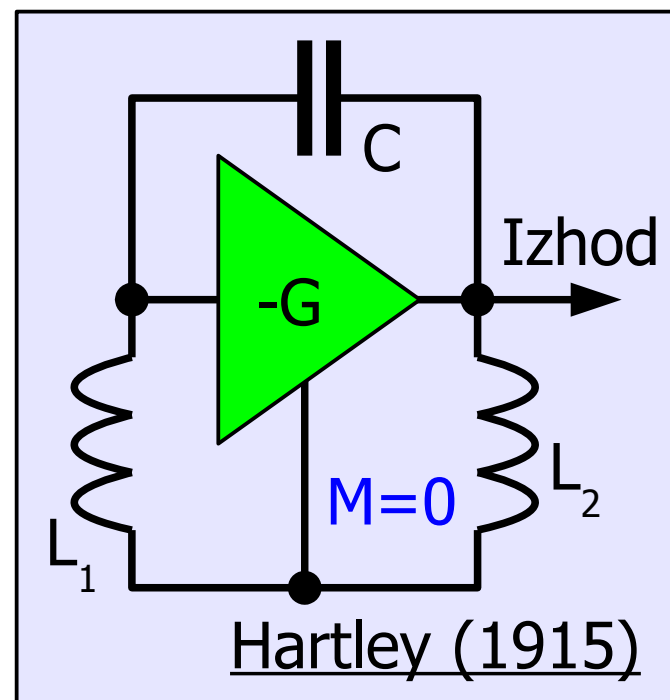
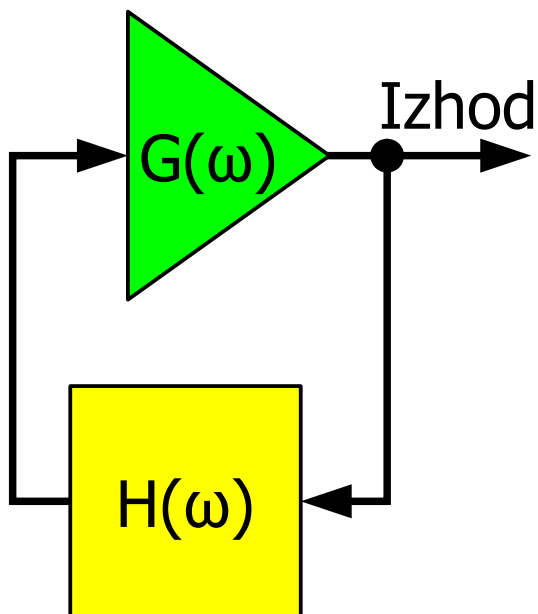
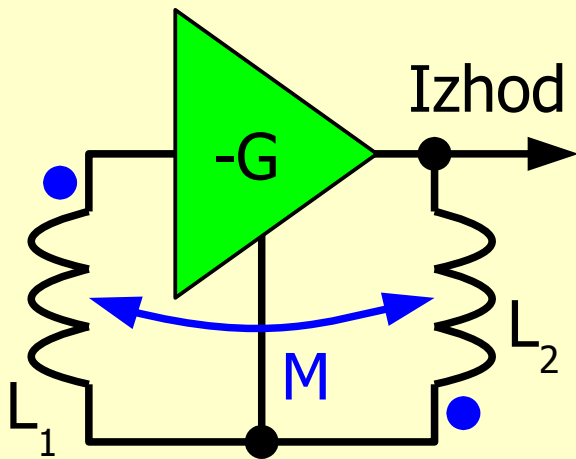


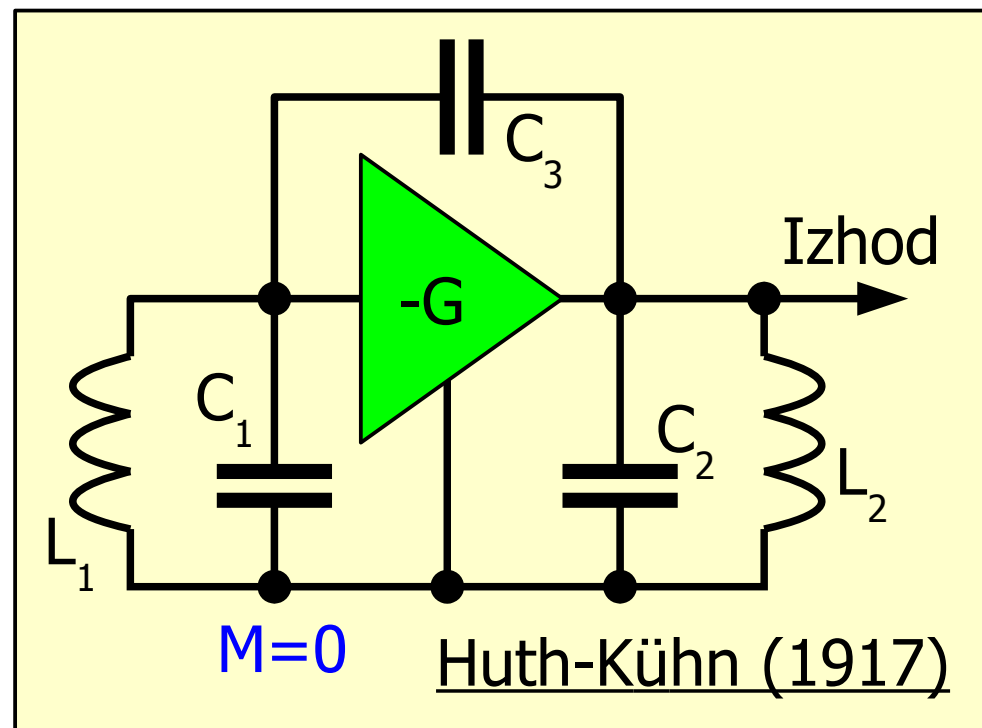
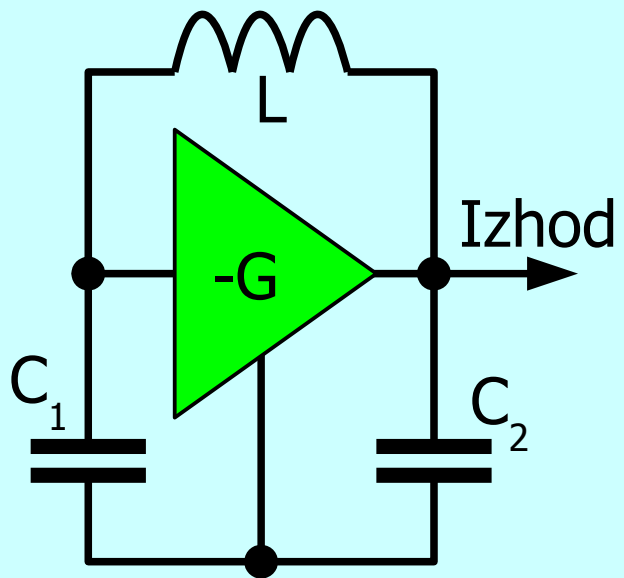
Miller-jeva kapacitivnost

Enostopenjski MMIC ojačevalnik

Meissner (1912)

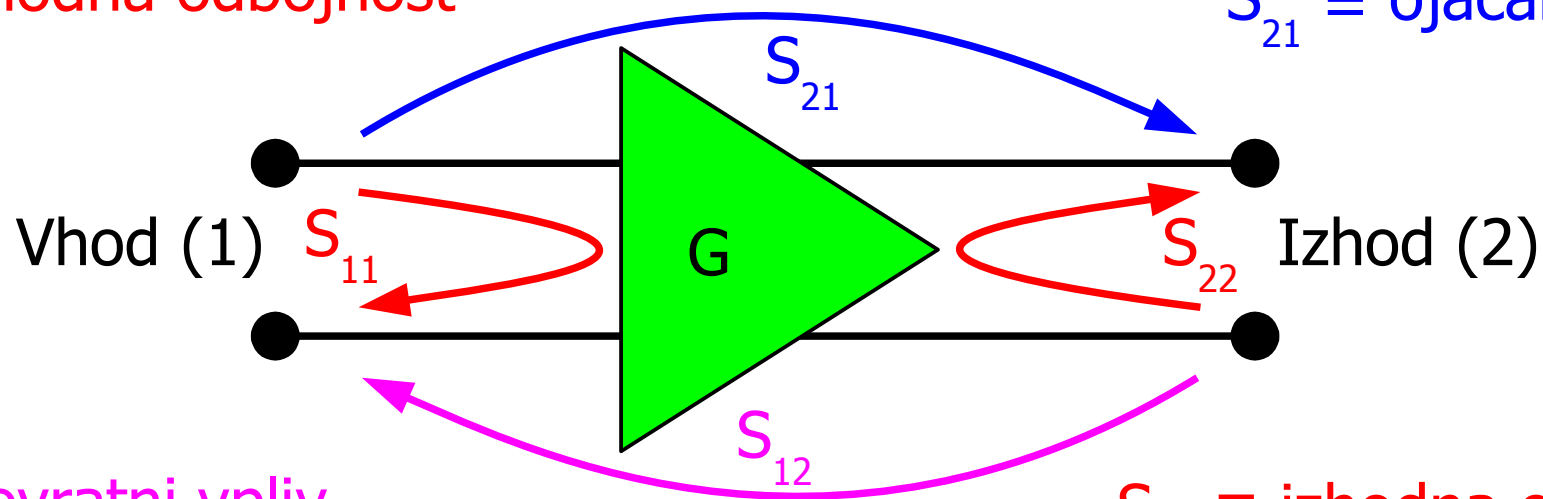


Colpitts (1918)



$S_{11} \equiv$  vhodna odbojnost

$S_{21} \equiv$  ojačanje



$S_{12} \equiv$  povratni vpliv

$S_{22} \equiv$  izhodna odbojnost

$S_{12}=0$  Brezpogojna stabilnost  $|S_{11}|<1$  in  $|S_{22}|<1$

$S_{12} \neq 0$  Rollett-ov faktor  $K = \frac{1 - |S_{11}|^2 - |S_{22}|^2 + |\Delta|^2}{2|S_{12}S_{21}|}$

$$\Delta = S_{11}S_{22} - S_{12}S_{21}$$

Brezpogojna stabilnost  $K > 1$  in  $|\Delta| < 1$

Rollett-ov faktor stabilnosti ojačevalnika

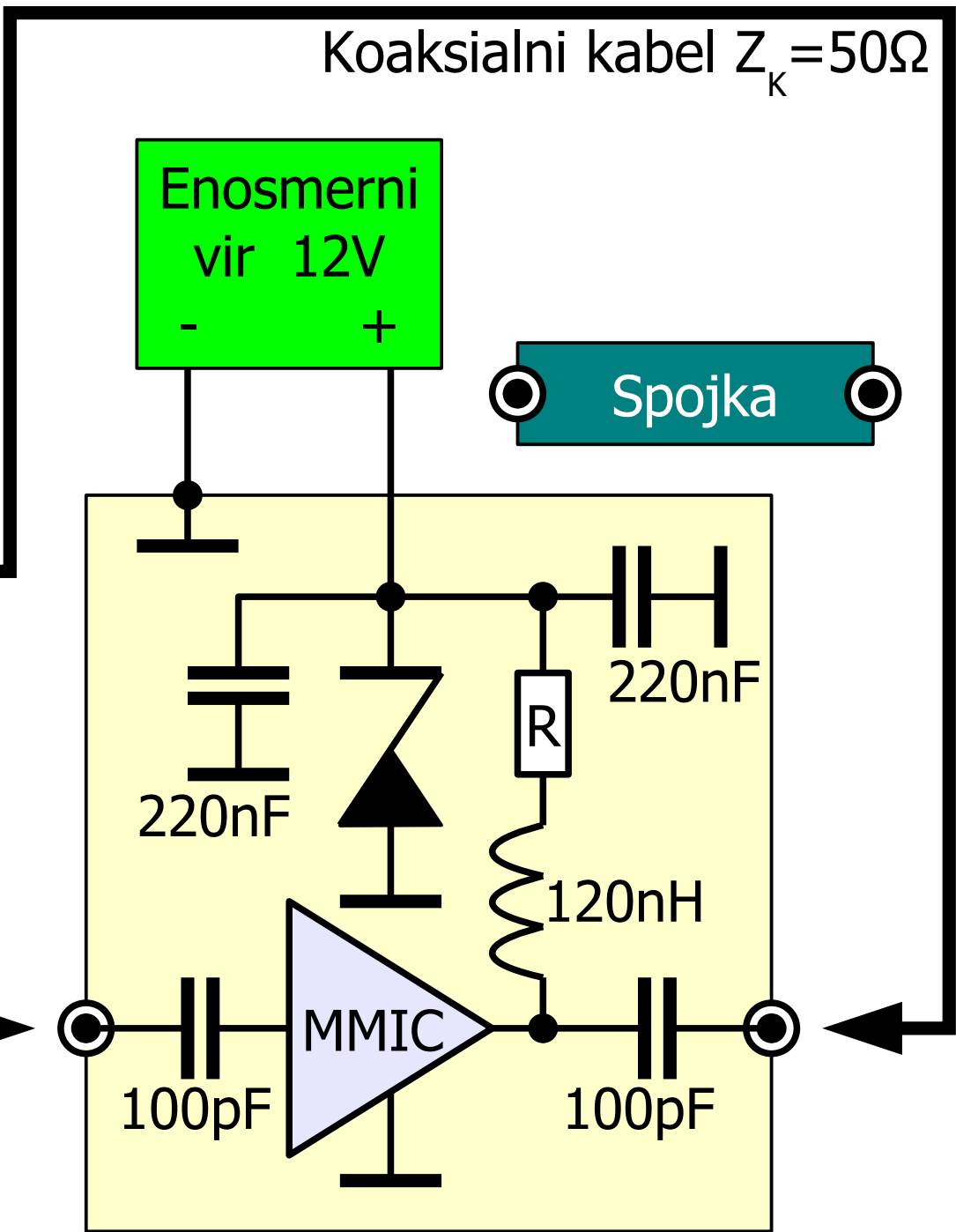


Kratek stik

Odprte sponke

Prilagojeno breme

Koaksialni kabel  $Z_k = 50\Omega$



Merilno vezje za MMIC ojačevalnik