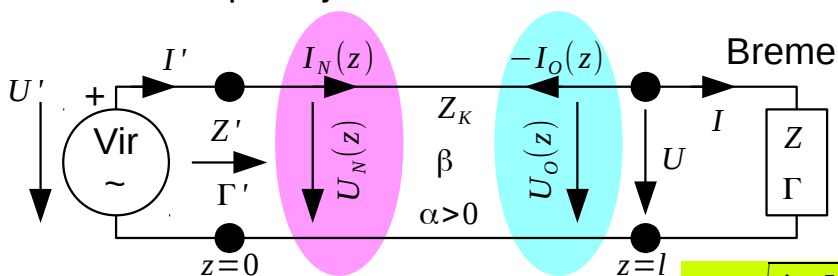


Napredujoči val

Odbiti val

Majhne izgube



Vod z izgubami

$$Z_K = \sqrt{\frac{j\omega L/l + R/l}{j\omega C/l + G/l}}$$

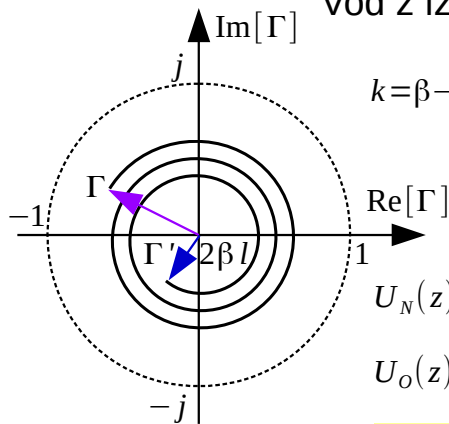
$$R/l \ll \omega L/l$$

$$G/l \approx 0$$

$$Z_K \approx \sqrt{\frac{L/l}{C/l}}$$

$$\beta \approx \omega \sqrt{L/l \cdot C/l}$$

$$\alpha \approx \frac{R/l}{2Z_K}$$



$$k = \beta - j\alpha = \sqrt{-(j\omega L/l + R/l) \cdot (j\omega C/l + G/l)}$$

$$U_N(z) = U_N(0) \cdot e^{-\alpha z} \cdot e^{-j\beta z}$$

$$U_O(z) = U_O(0) \cdot e^{+\alpha z} \cdot e^{+j\beta z}$$

$$\Gamma' = \Gamma \cdot e^{-2\alpha l} \cdot e^{-j2\beta l}$$

Vod z izgubami

