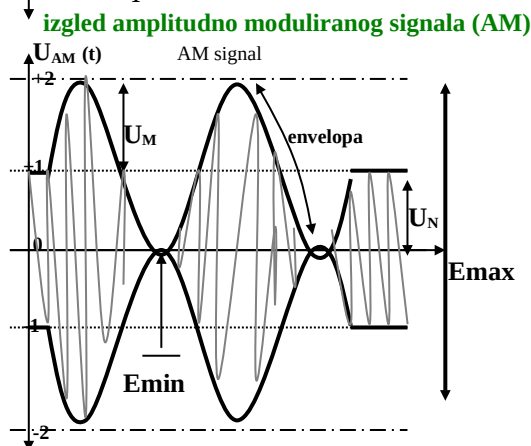
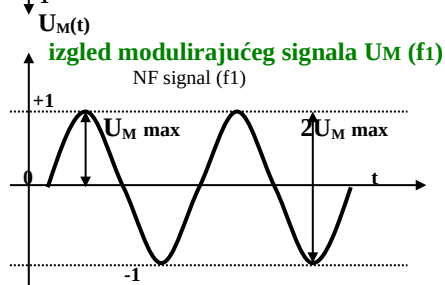
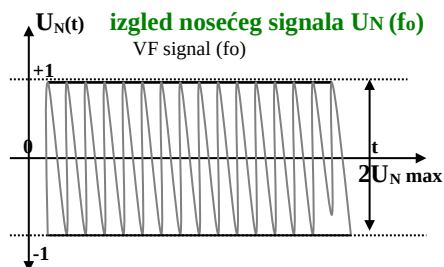
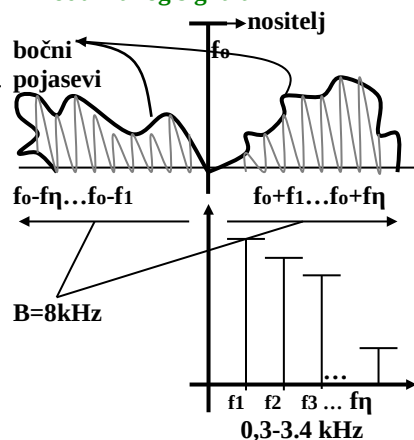
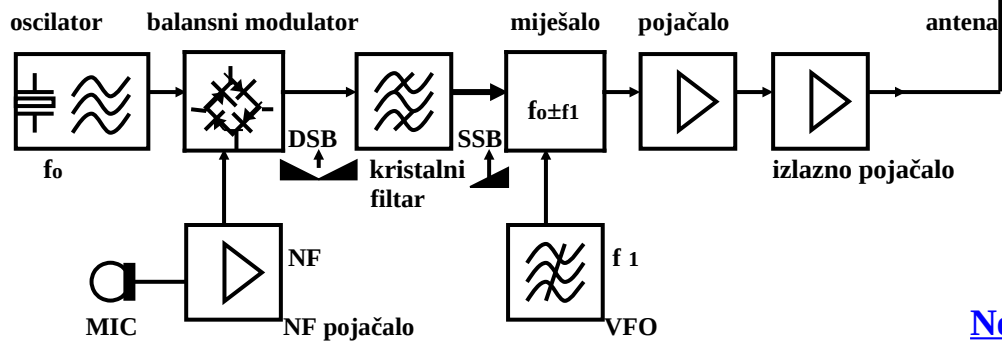




frekventni spektar amplitudno moduliranog signala



modulacija s jednim bočnim pojasom (SSB):



DUBINA MODULACIJE moduliranog signala (AM)

$$\square_{AM} = \frac{2-0}{2+0} \cdot 100\% = 100\%$$

$$\square_{AM} = \frac{1}{1} \cdot 100\% = 100\%$$

$$E_{max} = 2U_M + 2U_N$$

dubina AM (1)

$$\square_{AM} = \frac{U_M \max_{(NF)}}{U_N \max_{(VF)}} \cdot 100\%$$

dubina AM (2)

$$\square_{AM} = \frac{(E_{max} - E_{min})}{(E_{max} + E_{min})} \cdot 100\%$$

$\square_{AM}$ = indeks ili dubina modulacije

B = širina pojasa npr. 8kHz

U_{AM} = trenutna vrijednost AM signala

U_n = trenutna vrijednost napona signala noseće frekvencije

U_m = trenutna vrijednost napona modulirajućeg signala

U_{AM}, U_M, U_N = maksimalne vrijednosti moduliranoga signala

E_{max}, E_{min} = maksimalni odnosno minimalni signal AM od vrha do vrha (E = ENVELOPA ili OBUJMICA)

POZOR: DUBINA MODULACIJE NE SMIJE PRELAZITI 100% JER DOLAZI DO IZOBLIČENJA SIGNALA !!!