

## ABSTRACT

*SSB ( Single Side Band ) system have advantages if be compared with AM-DSBSC ( Amplitude Modulation-Double Side Band Full Carrier ), such as the power more efficient because the carrier signal have be suppressed, to economical the band wide of frequency because only the one of side-band will be transmitted.*

*To get that advantages, first the carrier signal must be suppressed with on balanced modulator circuit. Form balanced modulator circuit will be get DSBSC ( Double Side Band Suppressed Carrier ) and than DSBSC signal be connected to Band Pass Filter circuit and will be produced SSB signal.*

## INTISARI

Sistem SSB (*Single Side Band*) mempunyai keuntungan dibandingkan dengan sistem AM-DSBFC (*Amplitude Modulation-Double Side Band Full Carrier*), yaitu daya lebih hemat karena sinyal pembawa telah ditekan (*suppressed*) dan juga menghemat lebar bidang frekuensi karena hanya salah satu *sideband* yang dipancarkan.

Untuk memperoleh keuntungan tersebut diatas, maka sinyal pembawa ditekan terlebih dahulu dengan suatu rangkaian modulator setimbang (*Balanced Modulator*). Dari rangkaian modulator seimbang akan diperoleh sinyal DSBSC (*Double Side Band Suppressed Carrier*) kemudian sinyal DSBSC diumpankan ke rangkaian *Band Pass Filter* dan akan dihasilkan sinyal SSB.