Equalizers

* Equalizers are electrical N/ws derigned to courteract the allemention Or phase distortion so occurring in any part of the circuit.

* The N/W that counteracts the attenuation distortion is called attenuation Equalizer

* The N(w that counteracts the phase or delay distortion is called phase or delay equalizer.

* The bounteraction can be achieved by introducing additional attenuation at those feet, at which the attenuation is least.

So the onerall attn. is independent

* Or else by Ting the amplification at those feets at which the alln is great thy delay or phase equalizer the group velocities in order that delay a phase distortion is minimized. * : equalizers one N/w whose feel and phase attor. characteristro one adjusted to the inverse to those of the lines. * lesulting in our enseall wriform

freq. response over the distorted Leg. band

Types 1. series 2. Shunt

3. L. T. TI 4. Bridged T or lattice structure.

classification

Equalizees have been broadly classified 1) attenuation or amplitude Equalizer 2) Ahone or delay equalizers.

1. Attenuation or ampliful Equalizers

* A N/w that exhibits a

prescribed amplitude change b/w

if and ofp as a fn. & frequency

generally without regard to phase.

* Attenuation equializers are used largely in transmission, rewording and reproduction of speach and must give reproduction of speach and must give the derivad characteristics of various the derivad characteristics of various transducers, trains deres, amplifiers etc.

2. phase or delay equalizers

* It is a N/w, their exhibits a
prescribed phase change b/w yp and

off as a fn. ob beeg, generally without
regard to amplifuele. Ionstruted

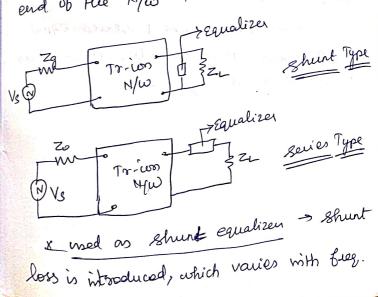
* Such a N/w may be solely of reactive elements.

vareform ob the 'yp signal is important go: facsimile and TV signal tries.

gailes and shurt Equalizers

* a terminal N(10

short with the sending or receiving end of the N/w to be considered.



Case! I ib her are arranged to lesonate at a freq. Slightly higher than the freghest operating freq, the shout loss will be minimum at this beef, ease : I for brez below this, the value ob ferminal impedance will fall and the shunt loss thes are the freq.

: 2 ferminal shunt + series equalizer suffers from the disadr. that their impés vary with fuez.

The drawing

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