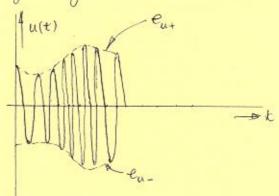


Note that the combined characteristic of H,(w) and H2(w) and onch as shown in fig 3(b) only when the diodes D4 and D2 are taken into account, ie, the prairies has been accounted for,

Note also that if $u_i(t)$ is added to $u_i(t)$ before rectification, then we will have the signal u(t) given by $u(t) = u_i(t) + u_i(t)$,



is the toe envelope ℓ_{u+} of u(t) is the sum of the positive envelopes of $u_1(t)$ and $u_2(t)$ while the -ve " ℓ_{u-} " u(t) negative " " " " This is a distorted envelope and if u(t) is demodulated directly using an envelope detector, the result will be a distorted baseband signal.

The undistorted baseband is obtained from the sum of $u_1(t)$ and $u_2(t)$, is the sum of the positive envelope of $u_1(t)$ and the negative envelope of $u_2(t)$.