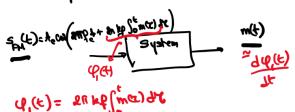
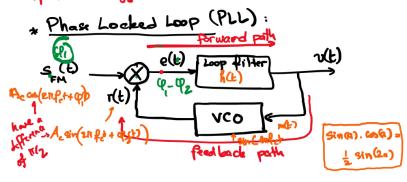
Online Tutorial #01 - FM Demodulation - PLL - Part I

Friday, March 20, 2020 12:01 PM

> Objections: to use a system that takes someth as input and returns miles as output.





if [U(E) = m(E)] then r-) is a FM signal similar to Spy(F) but with Tile phase difference.

In that case, elt) is not have low frequency composed and the loop countries to the desired output

if n(t) + m(t) then r(t) is a FM signal that is sin(a) 46(b) =

different than sfm(t).

In that case, elt) will house a low. frog. component -> 10(+) will change to get closer to m(t)

PLL can be seen as a negative feedback system on the phases.

, we make two assumptions: To analyze this Apte

- the VCO frequency is exactly the same as the Center frequency of the PM signal.
- there is a 162 phase shift between the unundulated Carrier of the VCO and the unmodulated consier of the Fit કોંગુ તની