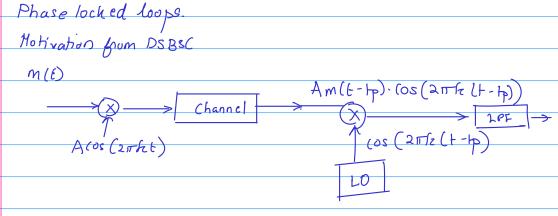


Lecture 41 05/11/2019



how do we generate a phase matched I coherent couries at the ox? Wing a PLL.

LO gives A (os (lithet + 010))

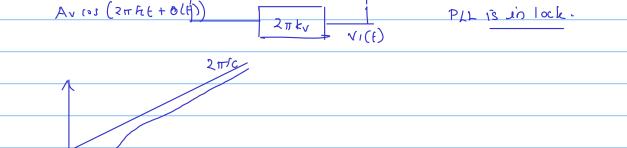
produces a sinusoidal with a freq of fe it the input is o.

$$\frac{dG(t)}{dt} = 2\pi k_{V} \cdot V_{i}^{i}(t)$$

Phase dub = mixes.

A A, cos (2 rfet + p). cos (2 rfet + 0(6))

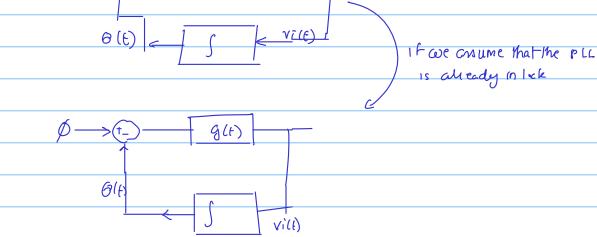
A cos (2 π fet \underline{f} \underline{f}



8(E)

a modified model

PLL



Phase offset - constant prop. delay