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$$\begin{aligned}
& \text{Ov}(t) = 871 \text{f.v.} t + \text{Ov}(t) \\
& \text{f.v.} = \text{f.c.} t + \text{Af. at } y(t) = 0 \text{ (bigg)} \\
& \text{Ov}(t) = 871 \text{ f.s.} y(t), d \text{T. } \leftarrow \text{Soewercy} \\
& \text{Modylates}
\end{aligned}$$

$$& \text{Ov}(t) = 871 \text{ f.v.} y(t) \\
& \text{Extinct} + \text{Extinot} + \text{Pov}(t) \\
& = 871 \text{ f.t.} + \text{Extinot} + \text{Pov}(t) \\
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\end{aligned}$$

$$& \text{Disferentiating 3} \\
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& \text{Extinot} + \text{Ov}(t) - \text{O(t)}
\end{aligned}$$

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& \text{Extinot} + \text{O(t)} - \text{O(t)}
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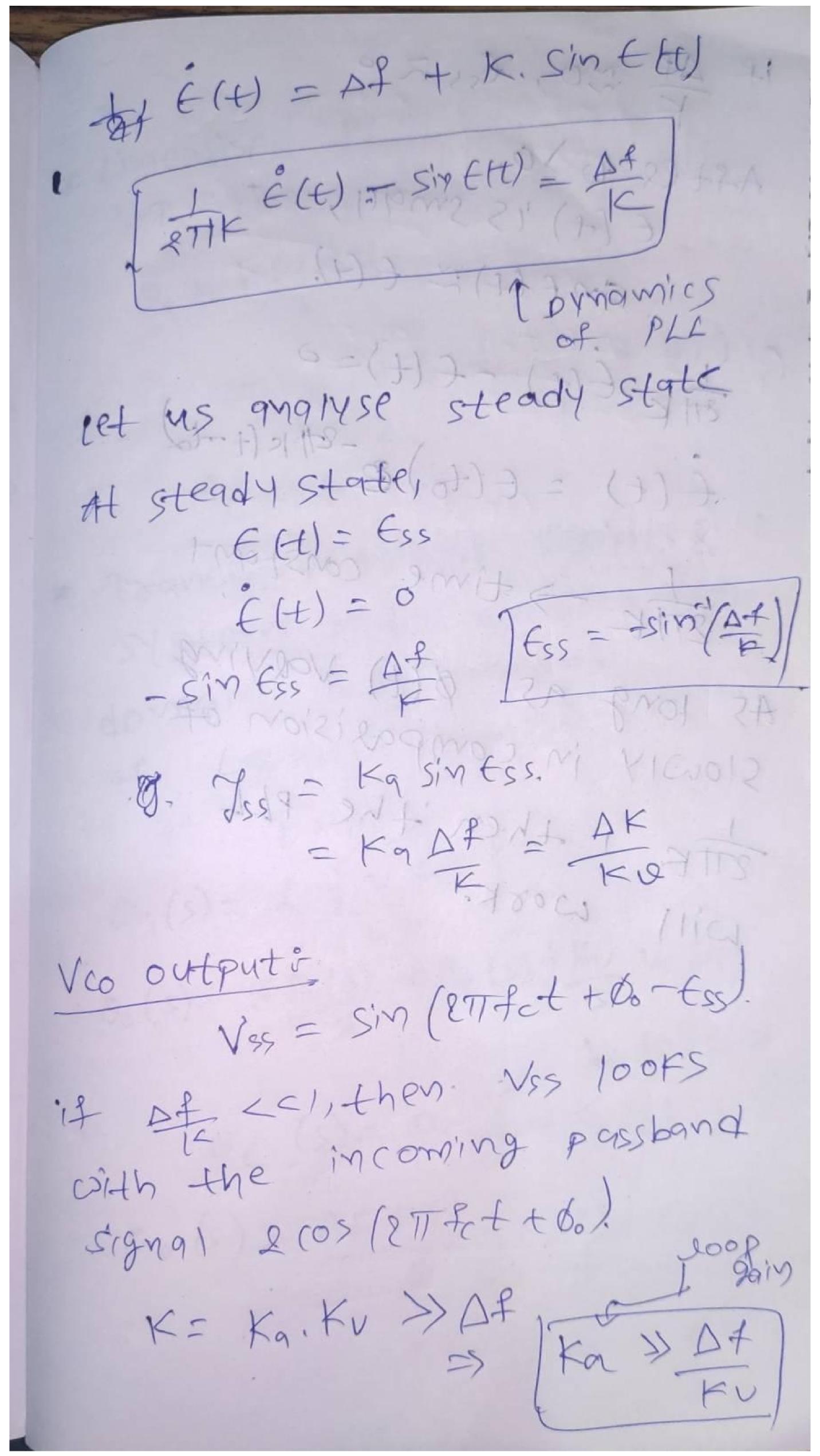
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\end{aligned}$$

$$& \text{Extinot} + \text{Ext$$



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18 Af 20, Ess 20 A-9+ eq +6) 15 sm911) £(t) = E(to) & 12 pops As long as \$(4) volving slowly in comparision of ETTE LANGE PLL . (23-50+ +:3+113) pre = 22V 27001 SW 100MJ-1132-146 broadlang grining pit diss Laborate A. Trest . Rong Transpa The state of

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\* Linealised PLL 100P equations 00 = KF(P) A De + Kuve (2) (F(P) Ki Ade + Ve) Transformatt of signals & system into complex food domain Sby means of Lablace transform 0,(s)= 2 { Vc(t) } 00(s)= KF(s) A0e(s)+ Fv ve(s) 0e (s) = 0, (s) - 00 (s) 00 (s) = Af F(s) (0; (s)-00(s))

O(S) = AKF(S) O, (S) 5+AKF(S) = H(S) O, (S) ZMPSON VILLE MISMOS 100 - F(H) 3 - (R) + (R) (2) st vit + (2) 99 th (2) -7 + = (3) 00 0 = (2) st (2)00-(2),00-(3) 30 (2) 2 + 1 (2) 2 + 1 (3) 6 0