29.03.22 Tuesday, 29 March 2022 12:54 PM Diapopourn Thazous (AM) Pépov κύγα: ((t) = Ac cos (2πfet) Zúpa Paoi kás Zúvns: mlt) -> Low Paspe |M(5)| = 0, & 5>W 4 Thopopoplas / diaplopen ons Diaμορφωμένο σhpa: s(t) = Ac[1+ ka: mt)] co>(2π fet) | Ka · m (t) | 21 Lo Evalo Brosa Tházo-> | Ka m (+) | > 1 YTEP SOULD OP PUOD Toσoσσό η συνεξ σεστης διαμόρρωσης: max { [ka·m H)] } · 100%  $S(f) = \frac{Ac}{2} \left[ S(f-fe) + S(f+fe) \right] + \frac{Ac \cdot ka}{2} \left[ M(f-fe) + M(f+fe) \right]$   $S(f) = \frac{Ac}{2} \left[ S(f) + \frac{Ac \cdot ka}{2} \left[ M(f-fe) + M(f+fe) \right]$ M(o) Acka Aνω π. ζ.
Κά ενν π. ζ. Kazw Theupiku Zwrn: 15) e se Aun mdeupien Zurn: 111 >5c  $m(t) = Am \cos (2\pi f_m t)$  $S(t) = Ac \left[ 1 + \mu \cos(2\pi f_m t) \right] \cdot \cos(2\pi f_c t)$  $P_{c} = \frac{1}{T} \int_{-T/2}^{T/2} |c(t)|^{2} dt = \frac{A_{c}^{2}}{9T} \int_{-T/2}^{T/2} (1 + \cos(4\pi f_{c} t)) dt \implies P_{c} = \frac{A_{c}^{2}}{9}$  $S(t) = A_c \cdot \cos(2\pi S_c t) + A_c \cdot \mu \cos(2\pi (S_c - S_m) t) + A_c \cdot \mu \cos(2\pi (S_c + S_m) t)$ AVN Thep. films · Pinz = A = 4 V2 (t) τετραμινισπίς ζωνοπερα τό Διαμόρφωση τετραγωνικού νομου V, (+) = Ac · (0) (21+ct) + m (t) V2 (+) = a, V, (+) + az v, 2(t)  $V_{2}(t) = a_{1} Ac \cos(2\pi f_{c}t) + a_{1} m(t) + a_{2} A_{c}^{2} \cos^{2}(2\pi f_{c}t)$ + 2 a Acmltlos (27 fet) + a m (t) V3 (+)= Ac (a, + 2a, Ac·m(+))·cos (211 fct) Diapoppwen's Diakonan  $V_{2}(t) = \begin{cases} V_{1}(t) & \text{av } V_{1}(t) > 0 \\ 0 & \text{addiws} \end{cases}$ 

 $V_{2}(t) \approx \begin{cases} V_{1}(t+1), & \text{av } c(t+1) >> 0 \\ 0, & \text{ahhoi} \end{cases} = V_{1}(t+1) \cdot g_{p}(t+1)$ 

 $V_{3}(t) \approx \left[ m(t) + A_{c}(0) \left( 2\pi f_{c}(t) \right) \right] \cdot \left[ \frac{1}{2} + \frac{1}{\pi} \cos \left( 2\pi f_{c}(t) - \frac{2}{3\pi} \cos \left( 6\pi f_{c}(t) + \frac{2}{3\pi} \cos \left( 6\pi f_$ 

 $\Rightarrow V_3(t) = \frac{Ac}{2} \left[ 1 + \frac{4}{\pi Ac} m(t) \right] \cos \left( 2\pi f_c t \right) d_c - w > w \Rightarrow f_c > 2w$