Telecon: Convolution: x (t) * y (t) = \ 2 (z) y (t-z) dz Fourier: X(g) = TF(z(t)) = Sp ze(t) e dt. $x(t) = \pi \epsilon^{-\gamma} (x(g)) = \int_{\Omega} x(g) e^{2\pi i gt} dg$ • TF (x (t-to)) = x(f) = 2 to € TF(2 * y) = x x 4. · S ~ (t) y*(t) dt = S X (j) Y* (g) df • So |x (t)|2 dt = So | x (f)|2 df • TF(2*(g)) = x*(-g)- æ(t) x s(±-t₀) = æ(t-t₀)-· TF (TT (t))= Ts sinc (Tef Ts) · Eb = Py Tb = SiR Sy (8) df x Tb · Sw (4) = Sn (4) x 1 Mr (3) 12 - (n (t) x hr (t) = w (t)) -*h(t) bits -> ak -> Zak S(t-KTs) -> x(t) = Zak h(t-KTs) Echentillennaye decision $z(t) \rightarrow r(t) \rightarrow z(t) \rightarrow z(t) \rightarrow z(t) + mTs) \rightarrow z_m \rightarrow b:ts$ a Sa x(t) & (t-to) dt = x(to).



