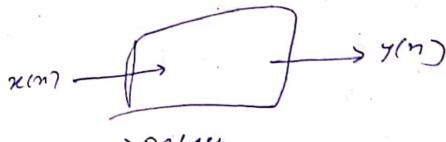


0.3126 => 000 578 0.3128+0 =>001 574 15/8 5/2 25/8 30/8 35/8 step-size max 5 Man-quartization error: Vnan-Vnin 3.2 101 0.2108 => Music -128 mbps - 51 xN

of penodic/aperiodic (1) CTIDT (le) even & odd (v) Energy signal / Power signal $\chi = -\infty$ $\left[\chi(n)\right]^2$ xlE) x (n) = {1,2,3,4} × (0). S(n-1)

$$y(n) = \pi(n) + \pi(n-1) + y(n-2) \cdot 2$$

+ $y(n-1)$



- 1) Delay
- 2) Oddin
- 3) Multipliver

de Chiar

$$a_1 \alpha_1(t) + 6 \alpha_2(t) \rightarrow a_1 \gamma_1(t) \rightarrow b_1 \gamma_2(t)$$

 $\gamma(n) = \alpha(n-1)$

* Time invariance

$$\varkappa(n) \rightarrow \gamma(n)$$

* stable-systems

* Invariability

* Casual systems $\chi(n), \eta(n-1),$ y(n) $\chi(n)$ output depends on present

inputs, past inputs,

past outputs

* Memory - memoryless

quarkssalson error * Marc-Min BEE-rate -> fxxN * Signals penodic/apenodic odd, even

Former = E -> 00, P=hinh D 10,20,3D La Cineari-system Superposition to System ani(n) + 6x2N) La a 4,(n) + 642(n) -> Time-invariant, Time-variant Lyc(n) -> y(n) ス(ハール) -> ソ(ハール) ₩ -) Menoyless, Memory depends only > Canal system - practical stablishy Bounded

a convolution

$$\chi_1(m) * \chi_2(m)$$

$$= \mathop{\mathcal{E}}_{M=-\infty} \chi_1(m) \cdot \chi_2(m-M)$$

$$z_1(t) \neq n_2(t) = \int_{-\infty}^{\infty} x_1(t) \cdot x_2(t-t) dt$$

$$t = -\infty$$

$$\chi(t)$$

$$\chi(m)$$

$$\chi(m)$$

$$\chi(m)$$

$$\chi(m)$$

$$\chi(m)$$

$$\chi(m)$$

$$\chi(m)$$

$$\chi(m)$$

$$\rightarrow \varkappa(0) = \left\{ ---, \varkappa(-2), \varkappa(-1), \varkappa(0), ---- \right\}$$

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$$y(n) = --- + \pi(-2) \cdot h(n+2) + ---$$

$$+ --- + \pi(1) \cdot h(n-1)$$

$$= \mathcal{E}^{\infty} \pi(m) \cdot h(n-m)$$

$$m = -\infty$$

$$\frac{1}{2} \frac{1}{2} \frac{1}$$

$$||y(m)|| = ||x(m)|| + ||h(m)|| - 1$$

$$DFT \left\{ x(m) + h(m) \rightarrow x(w) \cdot \mu(w) \right\}$$

$$DFT \left\{ x(m) + \mu(m) \rightarrow x_1(\mu) \cdot x_2(\mu) \right\}$$

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