SIGNAL ENERGY AND POWER

ij V(s) and U(s) are respectively the voltage and aurent across a restitor with restrictive R, then the instantaneous power G

The total energy depended over the time interval t, stat, is

And the average power over this time interval is

$$\frac{1}{4_{k}-4_{1}} \int_{a_{k}}^{a_{k}} p(k) dk = \frac{1}{4_{k}-4_{1}} \int_{a_{k}}^{a_{k}} \frac{1}{K} v^{4}(a) dk$$

We use similar terminology for power and energy for any continuous-time signal rie) or any observe-time signal x[n]. Horrows we can consider signals that take on complex values. In this case the total energy:

The total analyge in a dictorale time signal a[n] over number of a defined as:

Average powers

$$\frac{1}{n_1-n_1-1}\sum_{k=0}^{n_k}|x(x)|^k$$

When examining energy and power in signals over an infinite time interval, we define the local energy as:

$$E_{-} \triangleq \frac{Acm}{1-cp} \int_{-1}^{1} |x(t)|^{2} dt = \int_{-1}^{1} |x(t)|^{2} dt$$
 (in continuous them)

$$E_{\nu} = \lim_{n \to \infty} \lim_{n \to \infty} |\kappa E_n 3|^2 = \sum_{n=0}^{\infty} |\kappa E_n 3|^2$$
 (in observe time)

life define. He have duranteed power out an infondic interval as

$$P_{\mu}$$
 if $\frac{1}{T-c_{\mu}} \int_{T}^{T} |x(t)|^{2} dt$ (in continuous time)

$$P_{\mu} \otimes \frac{1}{\mu^{2}} \sum_{n=1}^{N} |x(n)|^{n}$$
 (in observe time)

We identify three clatter of signals

Such a signal must have zero average power as
$$P_p = \frac{Lc_m}{T-sp} = \frac{E_p}{2T} = 0$$
.

Signals And Systems Solution

Steven T. Karris

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Primer with Matlab Alexander D Poularikas, Poularikas Alexander D Staff, 2007-01-01 Signals and Linear Systems

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