

Signals and Systems

Tuesday, 20. September 2022 13:35

SIGNAL ENERGY AND POWER

If $v(t)$ and $i(t)$ are respectively the voltage and current across a resistor with resistance R , then the instantaneous power is

$$p(t) = v(t)i(t) = \frac{1}{R} v^2(t)$$

The total energy expended over the time interval $t_1 \leq t \leq t_2$ is

$$\int_{t_1}^{t_2} p(t) dt = \int_{t_1}^{t_2} \frac{1}{R} v^2(t) dt$$

And the average power over this time interval is

$$\frac{1}{t_2 - t_1} \int_{t_1}^{t_2} p(t) dt = \frac{1}{t_2 - t_1} \int_{t_1}^{t_2} \frac{1}{R} v^2(t) dt$$

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

$$\int_{t_1}^{t_2} |x(t)|^2 dt \quad \text{where } |x| \text{ = magnitude of complex } x$$

The total energy in a discrete-time signal $x[n]$ over $n_1 \leq n \leq n_2$ is defined as:

$$\sum_{n=n_1}^{n_2} |x[n]|^2$$

Average power:

$$\frac{1}{n_2 - n_1 + 1} \sum_{n=n_1}^{n_2} |x[n]|^2$$

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

$$E_x \triangleq \lim_{T \rightarrow \infty} \int_{-T}^T |x(t)|^2 dt = \int_{-\infty}^{\infty} |x(t)|^2 dt \quad (\text{in continuous time})$$

$$E_x \triangleq \lim_{N \rightarrow \infty} \sum_{n=-N}^N |x[n]|^2 = \sum_{-\infty}^{\infty} |x[n]|^2 \quad (\text{in discrete time})$$

We define the time-averaged power over an infinite interval as:

$$P_x \triangleq \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T |x(t)|^2 dt \quad (\text{in continuous time})$$

$$P_x \triangleq \lim_{N \rightarrow \infty} \frac{1}{2N+1} \sum_{n=-N}^N |x[n]|^2 \quad (\text{in discrete time})$$

We identify three classes of signals

1. Signals with finite total energy $E_x < \infty$

Such a signal must have zero average power as $P_x = \lim_{T \rightarrow \infty} \frac{E_x}{2T} = 0$.

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JR Anderson



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web about this chapter the flow of genetic information in cells from dna to mrna to protein is described by the central dogma which states that genes specify the sequence of mRNAs which in turn specify the sequence of amino acids making up all proteins the decoding of one molecule to another is performed by specific proteins and RNAs

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web step 1 transcription here the dna sequence of a gene is rewritten in the form of rna in eukaryotes like you and me the rna is processed and often has a few bits snipped out of it to make the final product called a messenger rna or mrna step 2 translation

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