

Signals and Systems

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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 is:

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

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:

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

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

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 $P_x = \lim_{T \rightarrow \infty} \frac{E_x}{2T} = 0$.

Signals And Systems Solution

P. P. Vaidyanathan



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the door to a new world of applications using novel powerful mathematical tools *Signals and Systems* Simon Haykin, Barry Van Veen, 1998-08-28 The text provides motivation for students to learn because they ll discover how various concepts relate to the engineering profession through these real world examples of signals and systems An abundant use of examples and drill problems are integrated throughout so they ll be able to master the material And a large number of end of chapter problems are provided to help solidify the concepts Numerical Linear Algebra in Signals, Systems and Control Paul Van Dooren, Shankar P. Bhattacharyya, Raymond H. Chan, Vadim Olshevsky, Aurobinda Routray, 2011-05-21 The purpose of Numerical Linear Algebra in Signals Systems and Control is to present an interdisciplinary book blending linear and numerical linear algebra with three major areas of electrical engineering Signal and Image Processing and Control Systems and Circuit Theory Numerical Linear Algebra in Signals Systems and Control will contain articles both the state of the art surveys and technical papers on theory computations and applications addressing significant new developments in these areas The goal of the volume is to provide authoritative and accessible accounts of the fast paced developments in computational mathematics scientific computing and computational engineering methods applications and algorithms The state of the art surveys will benefit in particular beginning researchers graduate students and those contemplating to start a new direction of research in these areas A more general goal is to foster effective communications and exchange of information between various scientific and engineering communities with mutual interests in concepts computations and workable reliable practices **Signal**, 2006 **Signals & Systems Demystified** David McMahon, 2006-09-06 The fast and easy way to learn signals and systems Get a working knowledge of signal processing and systems even if you don t have formal training unlimited time or a genius IQ Signals and Systems Demystified offers an effective illuminating and entertaining way to learn this essential electrical engineering subject First you ll learn methods used to calculate energy and power in signals Next you ll study signals in the frequency domain using Fourier analysis Other topics covered include amplitude frequency and phase modulation spectral analysis convolution the Laplace transform and the z transform Packed with hundreds of sample equations and explained solutions and featuring end of chapter quizzes and a final exam this book will teach you the fundamentals of signals and systems in no time at all Simple enough for a beginner but challenging enough for an advanced student Signals and Systems Demystified is your shortcut to mastering this complex subject This hands on self teaching text offers An easy way to understand signal processing and systems Hundreds of worked examples with solutions A quiz at the end of each chapter to reinforce learning and pinpoint weaknesses A final exam at the end of the book No unnecessary technical jargon A time saving approach to performing better on an exam or at work **Signals and Systems** Steven T. Karris, 2008 Introductory text on Signals Systems and Signal Processing topics with MATLAB computations and modeling with Simulink **Radio Frequency Machine Learning: A Practical Deep Learning Perspective** Scott Kuzdeba, 2025-01-31 Radio Frequency Machine Learning A Practical Deep Learning Perspective goes

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