Mindluster Platform

About the course Digital Signal Processing

Digital Signal course in hindi, In this course you'll delve into the world of digital signals, exploring their representation, processing, and applications in modern technology.

Engineering Category's Courses

Course Lesson(50)

Lesson 1 : **L1 Introduction to signals sampling basics nyquist theorem examples**

Lesson 2 : **L5 Introduction course overview applications signal conversion**

Lesson 3 : **L3 Review of signals continuous vs discrete vs digital sampling quantization**

Lesson 4 : **L2 Basic signals unit step exponentials sinusoids frequency concepts**

Lesson 5 : **L4 Basic operations on signals time shifting reversal addition scaling**

Lesson 6 : **L9 Classification of signals sequences causal finite infinite sinusoid sequences**

Lesson 7 : **L7 Discrete time sinusoid periodicity frequency fourier series**

Lesson 8 : **Review**

Lesson 9 : **L6 Summarizing week 1 signals operations periodicity in discrete time**

Lesson 10 : **L8 Problem solving 1 impulse step symmetry periodic sequences**

Lesson 11 : **L11 Time scaling downsampling upsampling rate conversion**

Lesson 12 : **L12 Introduction to systems memory linearity time invariance**

Lesson 13 : **L13 Linear time invariant system the convolution sum impulse response**

Lesson 14 : **L19 Problem solving 2 signal types sinusoids scaling**

Lesson 15 : **L14 Problem solving 3 upsampling downsampling periodicity analysis**

Lesson 16 : **L15 Problem solving 4 even odd signals signal products linearity**

Lesson 17 : **L16 Problem solving 5 linearity time invariance convolution sum**

Lesson 18 : **L20 Causal systems impulse response moving average filters**

Lesson 19 : **L17 Energy power signals partial energy power classification**

Lesson 20 : **L18 Stability of a system boundedness summability bibo stability**

Lesson 21 : **L22 Linear constant coefficient difference equation explained**

Lesson 22 : **L21 From time domain to frequency domain discrete time fourier transform DTFT**

Lesson 23 : **L31 Convolution analytical method exponential signals causality**

Lesson 24 : **L24 Interconnection of linear time invariant lti systems convolution impulse response**

Lesson 25 : **L23 Numericals on energy power of signals bounded input bounded output BIBO Stability**

Lesson 26 : **L25 Sampling nyquist aliasing band limited signals spoke wheel**

Lesson 27 : **L26 Convolution with impulse Signal recap sampling intro examples**

Lesson 28 : **L27 Reconstruction nyquist theorem sampling spectrum filters**

Lesson 29 : **L28 Oversampling matters filter design spectral copies**

Lesson 30 : **L32 Problem solving on sampling 3**

Lesson 31 : **L30 Problem solving on sampling â€“ 1 nyquist Rate sinc sliasing**

Lesson 32 : **L29 Problem solving on sampling 2 nyquist rate explained with examples**

Lesson 33 : **L33 Mathematical framework of sampling spectrum replication reconstruction**

Lesson 34 : **L34 Reconstruction filter**

Lesson 35 : **L35 Undersampling example aliasing signal reconstruction explained**

Lesson 36 : **L36 Quantization**

Lesson 37 : **L40 Discrete time fourier transform inverse discrete time fourier transform spectral analysis**

Lesson 38 : **L38 DTFT examples step by step discrete time fourier transform in signal processing**

Lesson 39 : **L37 Symmetry properties of dtft real imaginary conjugate components**

Lesson 40 : **L39 Symmetry properties of dtft when the discrete time signal is real**

Lesson 41 : **L42 Example moving average filter discrete time fourier transform frequency phase analysis**

Lesson 42 : **L41 Existence of dtft conditions for convergence in signal processing**

Lesson 43 : **L43 Special cases for existence of dtft periodic finite energy dirichlet signals**

Lesson 44 : **L44 Fourier transform theorems properties linearity shifting time reversal explained**

Lesson 45 : **L47 Fourier transform theorems properties convolution parseval s theorem**

Lesson 46 : **L45 Fourier transform theorems differentiation in frequency domain multiplication property**

Lesson 47 : **L46 Problem solving discrete time fourier transform properties phase parseval s theorem example**

Lesson 48 : **L48 Problem solving on properties of discrete time fourier transform parseval shifting**

Lesson 49 : **L50 Ideal filters discrete time fourier transform DTFT low high pass band pass band stop**

Lesson 50 : **L49 Linear constant coefficient difference equation LCCDE frequency response**

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