

Advanced Digital Signal Processing

Important 2mark questions

Unit I

1. The input to a linear shift invariant system with impulse response.
2. Compare random signals and random noise.
3. Define Gaussian random variable.

Unit II

1. What is meant by bias and consistency of an estimator?
2. What is Yule-walker method?
3. Differentiate parametric and non-parametric method of estimating the power spectrum.

Unit III

1. What is mean by ARMA process?
2. State the properties of linear prediction error filters.
3. Write the applications of Levinson algorithm.

Unit IV

1. Draw the basic adaptive channel equalizer.
2. Mention the rule to be followed to select the mean of an adaptive filter.
3. What is meant by whitening filter?

Unit V

1. What is an adaptive filter and mention its applications?
2. What is need for decimation and interpolation?
3. List out the applications of sampling rate converters.