

# Linear Systems And Signals Lathi 2nd Edition

White noise The term is used with this or similar meanings in many scientific and technical disciplines, including physics, acoustical engineering, telecommunications, and statistical forecasting. 11, 2005. Don DeLillo (1985), White Noise Lathi, B. ISBN 978-0-19-511009-8 In signal processing, white noise is a random signal having equal intensity at different frequencies, giving it a constant power spectral density. White noise refers to a statistical model for signals and signal sources, not to any specific signal. Modern Digital and Analog Communication Systems (3rd ed. Oxford University Press. P. White noise draws its name from white light, although light that appears white generally does not have a flat power spectral density over the visible band. (1998). ) ff1954e5f7

In analog frequency modulation, such as radio broadcasting of voice and music, the instantaneous frequency deviation, i.e. the difference between the frequency of the carrier and its center frequency, has a functional relation to the modulating signal amplitude. ff1954e5f7 In discrete time, white noise is a discrete signal whose samples are regarded as a sequence of serially uncorrelated random variables with a mean of zero and a finite variance; a single realization of white noise is a random shock. In some contexts, it is also required that the samples be independent and have identical probability distribution (in other words independent and identically distributed random variables are the simplest representation of white noise). In particular,

if each sample has a normal distribution with zero mean, the signal is said to be additive white Gaussian noise. The samples of...

Frequency modulation Communication Systems, pp. (1968). Retrieved 17 October 2019. Haykin, Simon; Frequency modulation (FM) is a signal modulation technique used in electronic communication, originally for transmitting messages with a radio wave. The technology is used in telecommunications, radio broadcasting, signal processing, and computing. P. Lathi, B. In frequency modulation a carrier wave is varied in its instantaneous frequency in proportion to a property, primarily the instantaneous amplitude, of a message signal, such as an audio signal. 214-17. New York: John Wiley and Sons, ISBN 0-471-51832-8. 2014-10-21

Digital data can be encoded and transmitted using a form of frequency modulation known as frequency-shift keying (FSK), in which the frequency of a carrier is switched among a discrete set of values. In its simplest form, binary FSK, two frequencies represent binary symbols 0 and 1. FSK is widely used in low to moderate data-rate applications because of its simplicity and robustness. Common uses include early computer modems (such as fax modems), telephone caller-ID systems, garage-door openers...

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