

## Digital Signal Processing N G Palan Ebook And

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### Digital Signal Processing N G

Digital signal processing is the use of digital processing, such as by computers or more specialized digital signal processors, to perform a wide variety of signal processing operations. The digital signals processed in this manner are a sequence of numbers that represent samples of a continuous variable in a domain such as time, space, or frequency. In digital electronics, a digital signal is represented as a pulse train, which is typically generated by the switching of a transistor. Digital si

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of  $n$  which could be positive or negative values e.g.  $-14, 0, +15$ , etc. The plot of the signal versus the variable  $n$  can be shown on a 2D plot on paper.

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2. Digital Filtering in Technical Analysis. Digital filtering is widely used in electrical engineering, telecommunications, and other fields to process digital signals, e.g., to alter the features of the input signal in a particular way, which appears in the filter output.

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Question 1- Problem 3-14 (a), (e), (f) and (g) from Textbook (Digital Signal Processing 3rd edition -John G. Proakis). Page (222) 77ired to DIGITAL PROCESSING Principles, Algorithms, and Applications John G. Proakis Dimitris G. Manolakis (a) 3.14 Determine the causal signal  $x(n)$  if its 2-transform  $X()$  is given by:  $1 + 3z^{-1} + 2z^{-2}$  (C) 3.14 Determine the causal signal  $x(n)$  if its ...

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A discrete sequence  $x[n]$  is a sequence of numbers  $\dots; x[2]; x[1]; x[0]; x[-1]; x[-2]; \dots$  where  $n$  denotes the  $n$ -th number in the sequence ( $n \in \mathbb{Z}$ ). A discrete sequence maps integer numbers onto real (or complex) numbers. We normally abbreviate  $x[n]$  to  $x_n$ , or to  $x_n$  if the running index is not obvious. The notation is not well standardized.

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