

digital signal processing a pdf

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The Scientist and Engineer's Guide to Digital Signal

A signal is a function of independent variables such as time, distance, position, temperature and pressure. A signal carries information, and the objective of signal processing is to extract useful information carried by the signal. Signal processing is concerned with the mathematical

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Digital Signal Processing 10 Unit Step Signal A signal, which satisfies the following two conditions- 1. $(P)=1$ ($S_{\hat{z}} P \neq 0$) 2. $(P=0$ ($S_{\hat{z}} P < 0$) is known as a unit step signal. It has the property of showing discontinuity at $t=0$. At the point of discontinuity, the signal value is given by the average of signal value.

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As a result, the book's emphasis is more on signal processing than discrete-time system theory, although the basic principles of the latter are adequately covered. The book teaches by example and takes a hands-on practical approach that empha- ... digital signal 1 ...

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