

Linear Systems

Most DSP techniques are based on a divide-and-conquer strategy called *superposition*. The signal being processed is broken into simple components, each component is processed individually, and the results reunited. This approach has the tremendous power of breaking a single complicated problem into many easy ones. Superposition can only be used with *linear systems*, a term meaning that certain mathematical rules apply. Fortunately, most of the applications encountered in science and engineering fall into this category. This chapter presents the foundation of DSP: what it means for a system to be linear, various ways for breaking signals into simpler components, and how superposition provides a variety of signal processing techniques.

Signals and Systems

A **signal** is a description of how one parameter varies with another parameter. For instance, voltage changing over time in an electronic circuit, or brightness varying with distance in an image. A **system** is any process that produces an *output signal* in response to an *input signal*. This is illustrated by the block diagram in Fig. 5-1. Continuous systems input and output continuous signals, such as in analog electronics. Discrete systems input and output discrete signals, such as computer programs that manipulate the values stored in arrays.

Several rules are used for naming signals. These aren't always followed in DSP, but they are very common and you should memorize them. The mathematics is difficult enough without a clear notation. First, *continuous* signals use parentheses, such as: $x(t)$ and $y(t)$, while *discrete* signals use brackets, as in: $x[n]$ and $y[n]$. Second, signals use lower case letters. Upper case letters are reserved for the frequency domain, discussed in later chapters. Third, the name given to a signal is usually descriptive of the parameters it represents. For example, a *voltage* depending on *time* might be called: $v(t)$, or a stock market *price* measured each *day* could be: $p[d]$.

Chapter Linear Systems Dsp

David Baud



Chapter Linear Systems Dsp:

Whispering the Techniques of Language: An Psychological Journey through **Chapter Linear Systems Dsp**

In a digitally-driven earth where screens reign supreme and quick transmission drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within phrases usually go unheard. Yet, nestled within the pages of **Chapter Linear Systems Dsp** a charming literary prize pulsing with raw feelings, lies an extraordinary quest waiting to be undertaken. Written by an experienced wordsmith, that charming opus invites viewers on an introspective trip, gently unraveling the veiled truths and profound impact resonating within the very fabric of each and every word. Within the psychological depths with this poignant review, we shall embark upon a heartfelt exploration of the book is core subjects, dissect their interesting writing type, and yield to the strong resonance it evokes heavy within the recesses of readers hearts.

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