

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

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Table of Contents Chapter Linear Systems Dsp

1. Understanding the eBook Chapter Linear Systems Dsp
 - The Rise of Digital Reading Chapter Linear Systems Dsp
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter Linear Systems Dsp
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter Linear Systems Dsp
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter Linear Systems Dsp
 - Personalized Recommendations
 - Chapter Linear Systems Dsp User Reviews and Ratings
 - Chapter Linear Systems Dsp and Bestseller Lists

5. Accessing Chapter Linear Systems Dsp Free and Paid eBooks
 - Chapter Linear Systems Dsp Public Domain eBooks
 - Chapter Linear Systems Dsp eBook Subscription Services
 - Chapter Linear Systems Dsp Budget-Friendly Options
6. Navigating Chapter Linear Systems Dsp eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter Linear Systems Dsp Compatibility with Devices
 - Chapter Linear Systems Dsp Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter Linear Systems Dsp
 - Highlighting and Note-Taking Chapter Linear Systems Dsp
 - Interactive Elements Chapter Linear Systems Dsp
8. Staying Engaged with Chapter Linear Systems Dsp
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter Linear Systems Dsp
9. Balancing eBooks and Physical Books Chapter Linear Systems Dsp
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter Linear Systems Dsp
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter Linear Systems Dsp
 - Setting Reading Goals Chapter Linear Systems Dsp
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter Linear Systems Dsp
 - Fact-Checking eBook Content of Chapter Linear Systems Dsp
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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