

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

Kathleen Armour



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Digital Signal Processing: A Practical Guide for Engineers and Scientists Steven Smith, 2013-10-22 In addition to its thorough coverage of DSP design and programming techniques Smith also covers the operation and usage of DSP chips He uses Analog Devices popular DSP chip family as design examples Covers all major DSP topics Full of insider information and shortcuts Basic techniques and algorithms explained without complex numbers

Digital Signal Processing with Examples in MATLAB® Samuel D. Stearns, Donald R. Hush, 2016-04-19 Based on fundamental principles from mathematics linear systems and signal analysis digital signal processing DSP algorithms are useful for extracting information from signals collected all around us Combined with today's powerful computing capabilities they can be used in a wide range of application areas including engineering communication

Digital Signal Processing with Examples in MATLAB®, Second Edition Samuel D. Stearns, Donald R. Hush, 2002-08-28 In a field as rapidly expanding as digital signal processing even the topics relevant to the basics change over time both in their nature and their relative importance It is important therefore to have an up to date text that not only covers the fundamentals but that also follows a logical development that leaves no gaps readers must somehow bridge by themselves Digital Signal Processing with Examples in MATLAB is just such a text The presentation does not focus on DSP in isolation but relates it to continuous signal processing and treats digital signals as samples of physical phenomena The author also takes care to introduce important topics not usually addressed in signal processing texts including the discrete cosine and wavelet transforms multirate signal processing signal coding and compression least squares systems design and adaptive signal processing He also uses the industry standard software MATLAB to provide examples of signal processing system design spectral analysis filtering coding and compression and exercise solutions All of the examples and functions used in the text are available online at www.crcpress.com Designed for a one semester upper level course but also ideal for self study and reference Digital Signal Processing with Examples in MATLAB is complete self contained and rigorous For basic DSP it is quite simply the only book you need

Foundations of Digital Signal Processing Patrick Gaydecki, 2004 This book covers the basic theoretical algorithmic and real time aspects of digital signal processing DSP Detailed information is provided on off line real time and DSP programming and the reader is effortlessly guided through advanced topics such as DSP hardware design FIR and IIR filter design and difference equation manipulation

Advanced Digital Signal Processing Glenn Zelniker, Fred J. Taylor, 1993-10-28 Provides a detailed treatment of the concepts and applications of advanced digital signal processing

Analog and Digital Signal Processing Professor Hussein Baher, 2001-10-15 Building on the success of the first edition this popular text book has now been updated and revised Covering both analog and digital signal processing techniques in an evenly balanced manner Professor Baher provides an excellent introductory and comprehensive text emphasising how analog and digital techniques complement each other rather than compete Brings the entire area of signal processing within the scope of modern undergraduate curricula

Discusses topics such as spectral analysis of continuous and discrete signals deterministic and random Fourier Laplace and z transforms analysis of continuous and discrete systems and circuits design of analog and digital filters fast Fourier transform algorithms and finite word length effects in digital processors Presents a final chapter on advanced signal processing including linear estimation adaptive filters over sampling sigma delta converters and wavelets to encourage further interest Contains numerous solved examples throughout and MATLAB r exercises at the end of each chapter Written primarily for undergraduates Analog Digital Signal Processing will also be an authoritative text for postgraduate students and professional engineers

Digital Signal Processing System and Its Realization Yan-Zhong Zhang, Yufen Yao, 1993 *Digital Signal Processing* David J. DeFatta, Joseph G. Lucas, William S. Hodgkiss, 1988-03-22 Provides a new methodology for performing system design of signal processing applications offering easy to follow procedures which can be implemented on personal computers Topics covered include a structured approach to filter design with closed form equations for classical IIR filter implementations in 2nd order cascaded stages radix 4 overlap FFT processing gain computation procedure and results for popular windows and comprehensive finite arithmetic analysis procedure for cascaded implementations Multirate processing is covered along with a system design of a high resolution detection application showing the procedure for analyzing the hardware and software architecture requirements BASIC routines are provided for several DSP operations

Digital Signal Processing Implementations Avtar Singh, Srinivasan, 2004 Whether you are an engineering student or an engineer already engaged in system design this current book will become your essential companion guiding you in using both hardware and software as you design systems with programmable DSP devices Jacket

A Self-study Guide for Digital Signal Processing John G. Proakis, Vinay K. Ingle, 2004 *Digital Signal Processing Using MATLAB V.4* Vinay K. Ingle, John G. Proakis, 1997 Intended to supplement traditional references on digital signal processing DSP for readers who wish to make MATLAB an integral part of DSP this text covers such topics as Discrete time signals and systems Discrete time Fourier analysis the z Transform the Discrete Fourier Transform digital filter structures FIR filter design IIR filter design and more

DSP Primer C. Britton Rorabaugh, 1999 Digital Signal Processing DSP has applications in many areas of electrical engineering from telecommunications to computer hardware This text and CD ROM provide nearly 200 mathematical methods processing algorithms and design procedures in a step by step format

Hands-on Digital Signal Processing Fred J. Taylor, Jon Mellot, 1998 This is a professional engineer s guide to modern signal processing techniques covering representation frequency an dtime domain transforms and newer implementations A computer disk is included to enable readers to use a PC as a virtual instrument to work on problems and learn techniques

Schaum's Outline of Digital Signal Processing Monson Hayes, 1999 Confusing Textbooks Missed Lectures Not Enough Time Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential

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web solution 1 the two half reactions balanced as if in acidic solution $2\text{CN}^- + \text{Au} + \text{CN}^- + 2\text{e}^- + 2\text{H}^+ + \text{O}_2 \rightarrow \text{H}_2\text{O}_2 + 2\text{CN}^-$ make electrons equal convert to basic solution $4\text{CN}^- + 2\text{Au} + 2\text{Au} + \text{CN}^- + 2\text{e}^-$ multiplied by a factor of 2 $2\text{e}^- + 2\text{H}_2\text{O} + \text{O}_2 \rightarrow \text{H}_2\text{O}_2 + 2\text{OH}^-$ the final answer

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web aug 29 2023 the first step to balance any redox reaction is to separate the reaction into half reactions the substance being reduced will have electrons as reactants and the oxidized substance will have electrons as products usually all reactions are written as reduction reactions in half reaction tables

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web a redox equation can be balanced using the following stepwise procedure 1 divide the equation into two half reactions 2 balance each half reaction for mass and charge 3 equalize the number of electrons transferred in each half reaction 4

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web the half equation method separates the oxidation and reduction of a redox reaction in half reactions overall scheme for the half reaction method step 1 split reaction into half reactions reduction and oxidation step 2 balance the charge or oxidation number with electrons step 3 balance c e o by adding c e h₂o

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solution and if necessary can be adapted to many situations that are not in aqueous solution

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web we can balance it for charge by adding two electrons to the right side of the equation so that the net charge on each side is 0 oxidation $\text{Ni} \rightarrow \text{Ni}^{2+} + 2\text{e}^-$ now that the oxidation half reaction is balanced it tells us that two electrons are produced for every atom of nickel oxidized but where do those electrons go

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web balancing redox reactions in acidic solution problems 1 10 problem 1 $\text{Cr}_2\text{O}_7^{2-} + \text{Fe}^{2+} \rightarrow \text{Cr}^{3+} + \text{Fe}^{3+}$ solution 1 balanced half reactions $6\text{e}^- + 14\text{H}^+ + \text{Cr}_2\text{O}_7^{2-} \rightarrow 2\text{Cr}^{3+} + 7\text{H}_2\text{O}$ $\text{Fe}^{2+} \rightarrow \text{Fe}^{3+} + \text{e}^-$ equalize the electrons $6\text{e}^- + 14\text{H}^+ + \text{Cr}_2\text{O}_7^{2-} \rightarrow 2\text{Cr}^{3+} + 7\text{H}_2\text{O}$ $6\text{Fe}^{2+} \rightarrow 6\text{Fe}^{3+} + 6\text{e}^-$ multiplied by a factor of 6

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web balance each half reaction in basic solution 4 5 6 7 $\text{Cr}_2\text{O}_7^{2-} + \text{NO}_2 \rightarrow \text{Cr}_2\text{O}_4^{2-} + \text{MnO}_2 + \text{Cr}_3 + \text{NO}_3 + \text{SO}_2 + \text{Mn}_2\text{O}_3$ balance each redox reaction in acid solution using the half reaction method 8 $\text{H}_2\text{O}_2 + \text{Cr}_2\text{O}_7^{2-} \rightarrow \text{TeO}_3 + \text{N}_2\text{O}_4 + \text{O}_2 + \text{Cr}_3 + \text{Te}$ 10 $\text{ReO}_4^- + \text{PbO}_2 + \text{IO}_2 + \text{Pb} \rightarrow \text{AsO}_4^{3-} + \text{IO}_3^- + \text{H}_2\text{AsO}_4$

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web aug 29 2023 some points to remember when balancing redox reactions the equation is separated into two half equations one for oxidation and one for reduction the equation is balanced by adjusting coefficients and adding H_2O H^+ and e^- in this order balance the atoms in the equation apart from O and H

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web in the redox equation below that occurs in our stomach which of the following pairs identifies the reducing and oxidizing agents respectively $\text{C}_6\text{H}_8\text{O}_6 + 2\text{H}_2\text{NO}_2 \rightarrow \text{C}_6\text{H}_6\text{O}_6 + 2\text{H}_2\text{O} + 2\text{NO}$ choose 1 answer $\text{C}_6\text{H}_8\text{O}_6$ and NO_2 a $\text{C}_6\text{H}_8\text{O}_6$ and NO_2 b NO_2 and $\text{C}_6\text{H}_8\text{O}_6$ c H_2NO_2 and $\text{C}_6\text{H}_8\text{O}_6$ d $\text{C}_6\text{H}_8\text{O}_6$ and H_2NO_2