



Lab P-12: Frequency Response: Bandpass and Nulling Filters

Pre-Lab and Warm-Up: You should read at least the Pre-Lab and Warm-up sections of this lab assignment and go over all exercises in the Pre-Lab section before going to your assigned lab session.

Verification: The Warm-up section of each lab must be completed during your assigned Lab time and the steps marked *Instructor Verification* must also be signed off during the lab time. One of the laboratory instructors must verify the appropriate steps by signing on the **Instructor Verification** line. When you have completed a step that requires verification, simply demonstrate the step to the instructor. Turn in the completed verification sheet to your instructor when you leave the lab.

Lab Report: Write a lab report on Sections 5 and 6 with graphs and explanations. Please label the axes of your plots and include a title for every plot. In order to keep track of plots, include your plot *idref* within your report. If you are unsure about what is expected, ask the instructor who will grade your report.

1 Pre-Lab

The goal of this lab is to study the response of FIR filters to inputs such as complex exponentials and sinusoids. In the experiments of this lab, you will use `firfilt()`, or `conv()`, to implement filters and `freqz()` to obtain the filter's frequency response.¹ As a result, you should learn how to characterize a filter by knowing how it reacts to different frequency components in the input.

This lab also introduces two practical filters: bandpass filters and nulling filters. Bandpass filters can be used to detect and extract information from sinusoidal signals, e.g., tones in a touch-tone telephone dialer. Nulling filters can be used to remove sinusoidal interference, e.g., jamming signals in a radar.

1.1 Frequency Response of FIR Filters

The output or *response* of a filter for a complex sinusoid input, $e^{j\hat{\omega}n}$, depends on the frequency, $\hat{\omega}$. Often a filter is described solely by how it affects different input frequencies—this is called the *frequency response*.

For example, the frequency response of the two-point averaging filter

$$y[n] = \frac{1}{2}x[n] + \frac{1}{2}x[n-1]$$

can be found by using a general complex exponential as an input and observing the output or response.

$$x[n] = Ae^{j(\hat{\omega}n + \phi)} \tag{1}$$

$$y[n] = \frac{1}{2}Ae^{j(\hat{\omega}n + \phi)} + \frac{1}{2}Ae^{j(\hat{\omega}(n-1) + \phi)} \tag{2}$$

$$= Ae^{j(\hat{\omega}n + \phi)} \frac{1}{2} \{1 + e^{-j\hat{\omega}}\} = Ae^{j(\hat{\omega}n + \phi)} \cdot H(e^{j\hat{\omega}}) \tag{3}$$

In (3) there are two terms, the original input, and a term that is a function of $\hat{\omega}$. This second term is the frequency response and it is commonly denoted by $H(e^{j\hat{\omega}})$, which in this case is

$$H(e^{j\hat{\omega}}) = \frac{1}{2} \{1 + e^{-j\hat{\omega}}\} \tag{4}$$

¹For the MATLAB function `fzfreqz.m`, there is a substitute available called `fzfreqz.m` in the *DSP First* toolbox.

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Digital Signal Processing Laboratory B. Preetham Kumar, 2016-04-19 Considering the rapid evolution of digital signal processing DSP those studying this field require an easily understandable text that complements practical software and hardware applications with sufficient coverage of theory Designed to keep pace with advancements in the field and elucidate lab work Digital Signal Processing Laboratory

Henry's Clinical Diagnosis and Management by Laboratory Methods: First South Asia Edition_E-book Richard A. McPherson, 2016-08-31 To interpret the laboratory results To distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study The book attempts to train a laboratory medicine student to achieve sound knowledge of analytical methods and quality control practices to interpret the laboratory results to distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study

Starting Digital Signal Processing in Telecommunication Engineering Tomasz P. Zieliński, 2021-01-29 This hands on laboratory driven textbook helps readers understand principles of digital signal processing DSP and basics of software based digital communication particularly software defined networks SDN and software defined radio SDR In the book only the most important concepts are presented Each book chapter is an introduction to computer laboratory and is accompanied by complete laboratory exercises and ready to go Matlab programs with figures and comments available at the book webpage and running also in GNU Octave 5.2 with free software packages showing all or most details of relevant algorithms Students are tasked to understand programs modify them and apply presented concepts to recorded real RF signal or simulated received signals with modelled transmission condition and hardware imperfections Teaching is done by showing examples and their modifications to different real world telecommunication like applications The book consists of three parts introduction to DSP spectral analysis and digital filtering introduction to DSP advanced topics multi rate adaptive model based and multimedia speech audio video signal analysis and processing and introduction to software defined modern telecommunication systems SDR technology analog and digital modulations single and multi carrier systems channel estimation and correction as well as synchronization issues Many real signals are processed in the book in the first part mainly speech and audio while in the second part mainly RF recordings taken from RTL SDR USB stick and ADALM PLUTO module for example captured IQ data of VOR avionics signal classical FM radio with RDS digital DAB DAB radio and 4G LTE digital telephony Additionally modelling and simulation of some transmission scenarios are tested in software in the book in particular TETRA ADSL and 5G signals Provides an introduction to digital signal processing and software based digital communication Presents a transition from digital signal processing to software defined telecommunication Features a suite of pedagogical materials including a laboratory test bed and computer exercises experiments

CRC Handbook of Electrical Filters John Taylor, Qiuting Huang, 1997-02-25 Interest in filter theory and design has been growing with the telecommunications industry since the late nineteenth century Now that

telecommunications has become so critical to industry filter research has assumed even greater importance at companies and academic institutions around the world The CRC Handbook of Electrical Filters fills in the gaps for engineers and scientists who need a basic introduction to the subject Unlike the currently available textbooks which are filled with detailed highly technical analysis geared to the specialist this practical guide provides useful information for the non specialist about the various types of filters their design and applications The handbook covers approximation theory and methods and introduces CAD packages that perform approximation and synthesis for both analog and digital filters Also included are design methods for LCR active RC digital mechanical and switched capacitor SC filters A thorough survey of current design trends rounds out this complete assessment of a key field of study

A Digital Signal Processing Laboratory Using the TMS320C25 Bernard Hutchins,T. W. Parks,1990 Contains intermediate and advanced projects organized for in lab studies with a user oriented perspective to supplement basic manufacturer manuals A disk containing sample problems is included Annotation copyrighted by Book News Inc Portland OR

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A Digital Signal Processing Laboratory Using the TMS32010 Douglas L. Jones,T. W. Parks,1988

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FIE '98, Tempe, Arizona ,1998 **Engineering Record, Building Record and Sanitary Engineer** ,1905

Images of the Twenty-first Century IEEE Engineering in Medicine and Biology Society. Conference,1989 The Official Proceedings of Speech Tech ,1988

Computer Vision - ACCV'98 Roland Chin,1997-12-12 These two volumes constitute the refereed proceedings of the Third Asian Conference on Computer Vision ACCV 98 held in Hong Kong China in January 1998 The volumes present together a total of 58 revised full papers and 112 revised posters selected from over 300

submissions The papers are organized in topical sections on biometry physics based vision color vision robot vision and navigation OCR and applications low level processing active vision face and hand posture recognition segmentation and grouping computer vision and virtual reality motion analysis and object recognition and modeling *Signal Processing, Theories and Applications* ,1990 **The Summer Session Announcement of Courses** University of Minnesota,1989

The Engineering Record, Building Record and the Sanitary Engineer ,1905 **Watermarking Security** Patrick Bas,Teddy Furon,François Cayre,Gwenaël Doërr,Benjamin Mathon,2016-06-21 This book explains how to measure the security of a watermarking scheme how to design secure schemes but also how to attack popular watermarking schemes This book gathers the most recent achievements in the field of watermarking security by considering both parts of this cat and mouse game This book is useful to industrial practitioners who would like to increase the security of their watermarking applications and for academics to quickly master this fascinating domain

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web step 7 8 place in an oven preheated to 175 c and bake for 70 minutes take care to place a tray on a lower shelf under the crostata to catch any drippings halfway through take the crostata out of the oven and pierce the holes with a knife once again then return to the oven to bake step 8 8

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