

Introduction

1-1

- 1.1 The gain $G = 20 \log(V_o/V_i) = 20 \log(5.34) = 14.55 \text{ dB}$
Phase shift $\Delta\theta = (180/\pi)(4.87 - 2.68) = 125.5^\circ$
- 1.2 At 12 kHz, the gain of the filter is $G = 10^{-30/20} = 1.259 \times 10^{-2}$
 \therefore The amplitude of output signal is $V_o = V_i \cdot G = 1 \times 1.259 \times 10^{-2} = 125.9 \text{ } \mu\text{V}$.
- 1.3 $\alpha = 20 \log \left| \frac{45 \times 10^{-4}}{100 \times 10^{-3}} \right| = 20 \log(4.5 \times 10^{-4}) = -66.94 \text{ dB}$
- 1.4 The gain is $G = 10^{30/20} \angle -42^\circ = 56.23 \angle -42^\circ$, hence the output signal is
 $V_o = V_i \cdot G = 2.4 \angle 45^\circ \times 56.23 \angle -42^\circ = 135.0 \angle 3^\circ$
 $\therefore v_o(t) = 135.0 \cos(\omega_s t + 3^\circ)$
- 1.5 (a) Lowpass. Transition bandwidth $BW_{\text{tr}} = 9.6 - 3.4 = 6.2 \text{ kHz}$
(b) Bandpass. Transition bandwidths $BW_{\text{tr1}} = 12.5 - 7 = 5.5 \text{ kHz}$, $BW_{\text{tr2}} = 40 - 24 = 16 \text{ kHz}$
(c) Bandstop. Transition bandwidths $BW_{\text{tr1}} = 12.5 - 7 = 5.5 \text{ kHz}$, $BW_{\text{tr2}} = 40 - 24 = 16 \text{ kHz}$
(d) Highpass. Transition bandwidth $BW_{\text{tr}} = 40 - 24 = 16 \text{ kHz}$
(e) Lowpass. Transition bandwidth $BW_{\text{tr}} = 600 - 360 = 240 \text{ kHz}$
(f) Bandpass. Transition bandwidths $BW_{\text{tr1}} = 1000 - 730 = 270 \text{ kHz}$,
 $BW_{\text{tr2}} = 7.8 - 2.4 = 5.4 \text{ MHz}$
- 1.6 At dc, $s = 0$, hence the gain is $20 \log |F(s)|_{s=0} = 20 \log(2 \times 9.32/1) = 20 \log(18.64) = 25.41 \text{ dB}$
At high frequencies $|F(j\omega)|_{\omega \rightarrow \infty} = \omega^{-2}$, attenuation $\alpha(\omega) = 20 \log(1/\omega^2) = -40 \log(\omega)$ increases
40 dB per decade.
When $\omega = \infty$ (infinite), attenuation is infinite.
- 1.7 In this problem's solution, denormalized component values are denoted by a " \sim ".
Denormalized parameters are $\overline{R}_1 = R_1 \cdot R_o$, $\overline{L} = \frac{R_o}{\omega_o} L$, and $\overline{C} = C/(\omega_o R_o)$, therefore $\overline{R}_1 = 300$
 Ω , $\overline{R}_2 = 300 \text{ } \Omega$, $\overline{L}_1 = 5.547 \text{ } \mu\text{H}$, $\overline{L}_2 = 4.365 \text{ } \mu\text{H}$, $\overline{L}_3 = 3.875 \text{ } \mu\text{H}$, $\overline{C}_1 = 126.0 \text{ pF}$, $\overline{C}_2 = 77.44 \text{ pF}$
- 1.8 In this problem's solution, denormalized component values are denoted by a " \sim ". Since
denormalized capacitance is $\overline{C}_1 = C_1/(\omega_o R_o)$, where R_o is the normalization resistor, we have
 $R_o = \frac{1}{\omega_o} \frac{C_1}{\overline{C}_1} = \frac{1}{2\pi \times 360 \times 10^3} \frac{0.765}{0.05 \times 10^{-9}} = 6.764 \text{ k}\Omega$
therefore the denormalized resistances are
 $\overline{R}_1 = R_1 \cdot R_o = 1.243 \times 6.764 \times 10^3 = 8.408 \text{ k}\Omega$
 $\overline{R}_2 = R_2 \cdot R_o = 1.677 \times 6.764 \times 10^3 = 11.343 \text{ k}\Omega$
 $\overline{R}_3 = R_3 \cdot R_o = 6.888 \times 6.764 \times 10^3 = 46.59 \text{ k}\Omega$

Design Of Analog Filters Solution Manual

Lei Shi



Design Of Analog Filters Solution Manual:

Design of Analog Filters Professor Chairman of the Department of Electrical Engineering and Computer Engineering Rolf Schaumann, Rolf Schaumann, 2003-03 The Instructor's Solutions Manual to Accompany Design of Analog Filters is a supplement to Schaumann and Van Valkenburg's main text. It contains solutions to all the problems and is available free of charge to adopting professors. **Digital Signal Processing Laboratory Manual** Mr. Rohit Manglik, 2024-07-28

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Filters Charles Sumner Williams, 1986 Design of Analog Filters Prentice Hall PTR, 1990-04-01 IEEE Circuits & Devices, 2006 **Practical Digital Signal Processing** Edmund Lai, 2003-10-21 The aim of this book is to introduce the general area of Digital Signal Processing from a practical point of view with a working minimum of mathematics. The emphasis is placed on the practical applications of DSP implementation issues, tricks and pitfalls. Intuitive explanations and appropriate examples are used to develop a fundamental understanding of DSP theory, laying a firm foundation for the reader to pursue the matter further. The reader will develop a clear understanding of DSP technology in a variety of fields from process control to communications. Covers the use of DSP in different engineering sectors from communications to process control. Ideal for a wide audience wanting to take advantage of the strong movement towards digital signal processing techniques in the engineering world. Includes numerous practical exercises and diagrams covering many of the fundamental aspects of digital signal processing. **Modeling and Simulation**, 1990 **Analog Filter Design** Rolf

Schaumann, Haiqiao Xiao, Mac Elwyn Van Valkenburg, 2010-06-30 Ideal for advanced undergraduate and first year graduate courses in analog filter design and signal processing. Design of Analog Filters integrates theory and practice in order to provide a modern and practical how to approach to design. **Design of Analog Filters** Rolf Schaumann, Haiqiao Xiao, Mac Elwyn Van Valkenburg, 2009-12-31 Ideal for advanced undergraduate and first year graduate courses in analog filter design and signal processing. Design of Analog Filters integrates theory and practice in order to provide a modern and practical how to approach to design. A complete revision of Mac E Van Valkenburg's classic work Analog Filter Design 1982, this text builds on the presentation and style of its predecessor, updating it to meet the needs of today's engineering students and practicing engineers. Reflecting recent developments in the field and emphasizing intuitive understanding, it provides students with an up to date introduction and design guidelines and also helps them to develop a feel for analog circuit behavior. Design of Analog Filters Second Edition moves beyond the elementary treatment of active filters built with opamps. The book discusses fundamental concepts: opamps, first and second order filters, second order filters with arbitrary transmission zeros, filters with maximally flat magnitude with equal ripple, Chebyshev magnitude and with inverse Chebyshev and Cauer response functions.

frequency transformation cascade designs delay filters and delay equalization sensitivity LC ladder filters ladder simulations by element replacement and by operational simulation in addition high frequency filters based on transconductance C concepts and on designs using spiral inductors are covered as are switched capacitor filters and noise issues Features Includes a wealth of examples all of which have been tested on simulators or in actual industrial use Uses the very easy to use and learn program Electronics Workbench to help students simulate actual experimental behavior Provides sample design tables and design and performance curves Avoids sophisticated mathematics wherever possible in favor of algebraic or intuitive derivations Addresses practical and realistic design

Design of Analog Filters Rolf Schaumann, Mohammed

Shuaib Ghausi, Kenneth R. Laker, 1990 Designing Software Synthesizer Plug-Ins in C++ Will C. Pirkle, 2014-10-30

Bridging the gap from theory to programming Designing Software Synthesizer Plug Ins in C For RackAFX VST3 and Audio Units contains complete code for designing and implementing software synthesizers for both Windows and Mac platforms You will learn synthesizer operation starting with the underlying theory of each synthesizer component and moving on to the theory of how these components combine to form fully working musical instruments that function on a variety of target digital audio workstations DAWs Containing some of the latest advances in theory and algorithm development this book contains information that has never been published in textbook form including several unique algorithms of the author's own design The book is broken into three parts plug in programming theory and design of the central synthesizer components of oscillators envelope generators and filters and the design and implementation of six complete polyphonic software synthesizer musical instruments which can be played in real time The instruments implement advanced concepts including a user programmable modulation matrix The final chapter shows you the theory and code for a suite of delay effects to augment your synthesizers introducing you to audio effect processing The companion website www.focalpress.com/cw/pirkle gives you access to free software to guide you through the application of concepts discussed in the book and code for both Windows and Mac platforms In addition to the software it features bonus projects application notes and video tutorials A reader forum monitored by the author gives you the opportunity for questions and information exchange

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Books in Print, 1994

Subject Guide to Books in Print, 1983

Proceedings of the ... American Control

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Electronic Engineering, 1988

Computer Books and Serials in Print, 1985

Design and

Analysis of Analog Filters Larry D. Paarmann, 2005-12-30 Design and Analysis of Analog Filters A Signal Processing

Perspective includes signal processing systems concepts as well as implementation While most books on analog filter design briefly present the signal processing systems concepts and then concentrate on a variety of filter implementation methods the present book reverses the emphasis stressing signal processing concepts Filter implementation topics are presented in Part II passive filters and operational amplifier active filters However greater emphasis on signal processing systems

concepts is included in Part I of the book than is typical This emphasis makes the book very appropriate as part of a signal processing curriculum Useful Aspects of Design and Analysis of Analog Filters A Signal Processing Perspective extensive use of MATLAB throughout with many homework problems involving the use of MATLAB over 200 figures over 100 examples a total of 345 homework problems appearing at the ends of the chapters complete and thorough presentation of design characteristics complete catalog of design approaches Audience Design and Analysis of Analog Filters A Signal Processing Perspective will interest anyone with a standard electrical engineering background with a B S degree or beyond or at the senior level While designed as a textbook its numerous practical examples make it useful as a reference for practicing engineers and scientists particularly those working in systems design or communications MATLAB Examples A valuable relationship between analog filter theory and analysis and modern digital signal processing is made by the application of MATLAB to both the design and analysis of analog filters Throughout the book computer oriented problems are assigned The disk that accompanies this book contains MATLAB functions and m files written specifically for this book The MATLAB functions on the disk extend basic MATLAB capabilities in terms of the design and analysis of analog filters The m files are used in a number of examples in the book They are included on the disk as an instructional aid

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