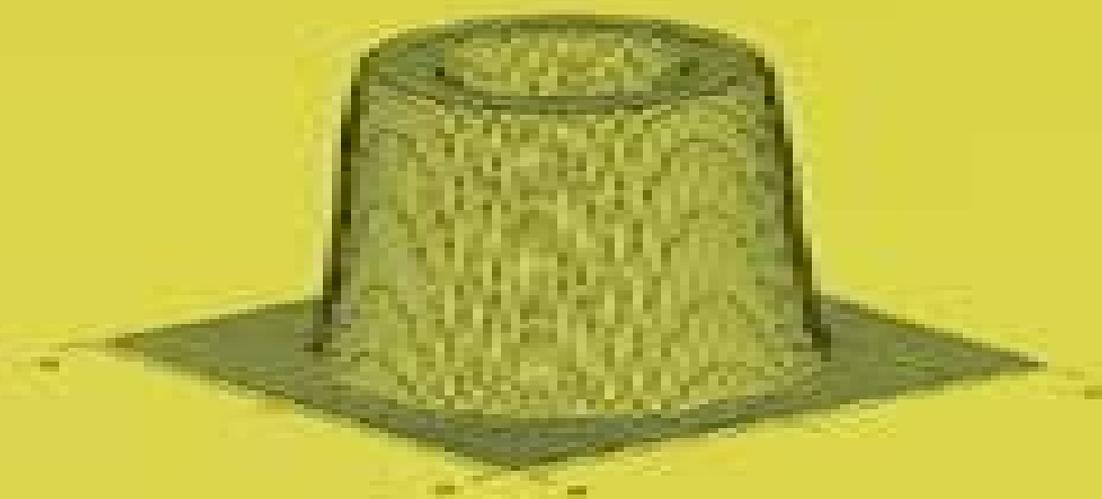


Two-Dimensional Digital Filters



Wu-Sheng Lu
Andreas Antoniou

Two Dimensional Digital Filters

Wu-Sheng Lu



Two Dimensional Digital Filters:

Two-Dimensional Digital Filters Wu-Sheng Lu,2020-08-11 Presents basic theories techniques and procedures used to analyze design and implement two dimensional filters and surveys a number of applications in image and seismic data processing that demonstrate their use in real world signal processing For graduate students in electrical and computer e

Current Design Techniques for Two-dimensional Digital Filters Paul P. Elko,1978 **Design of Linear Phase, Finite Impulse Response, Two-Dimensional, Digital Filters** ,1980 An interactive computer program was developed that enables the user to design linear phase finite impulse response linear shift invariant two dimensional digital filters The program user can design lowpass highpass bandpass bandstop all pass and multiband two dimensional digital filters The filters designed by using the program are nearly optimal in the Chebyshev sense The technique implemented in the program consists of transforming a one dimensional digital filter into a two dimensional digital filter by a change of variables This technique was first proposed by James H McClellan and is called the McClellan Transformation The program user can elect to utilize either the first order or the second order McClellan Transformation to design a two dimensional digital filter

Design and Implementation Techniques for Two-dimensional Digital Filters Richard Edward Twogood,1977 **A Method for Designing Two-dimensional Digital Filters for Image Processing** Rollin Lawrence Whitman,1974

Design and Realization of Two-dimensional Digital Filters Nixon Alfred Pendergrass,1975 Magnitude and Delay Approximation of 1-D and 2-D Digital Filters Belle A. Sheno,2012-12-06 There are more than 100 books on Circuit Analysis Network Synthesis Analog and Digital Filters and Signal Processing written at the undergraduate and graduate level and a few more written as Reference and Handbooks When and if they discuss the design of analog and digital filters they treat mainly the approximation of the magnitude response of the filters and very little of their phase or group delay response There is hardly any discussion of designing filters that simultaneously approximate the magnitude and group delay response of the filters Thus most of the books routinely discuss Butterworth Chebyshev and sometimes the Cauer or elliptic function response of the lowpass prototype filters followed by the transformations to design highpass bandpass and band stop filters all of them approximating their magnitude response only Due to the rapid progress from analog to digital communication and data transmission that has taken place in recent years there is a greater need for designing filters that approximate both the magnitude and group delay requirements So also is the need to design 2 dimensional digital filters particularly those used in image processing that approximate prescribed magnitude as well as constant group delay responses A lot of research work has been published in professional journals on the design of these filters in the last 10 15 years **Digital Filtering in One and Two Dimensions** M. Ahmadi,M. Azimi-Sadjadi,R. Gorgui-Naguib,R. King,A. Kwabwe,2013-06-29 This book has been conceived to extend the generally published work on one and two dimensional digital filters in order to include some of the more recently developed ideas It is intended to supplement and build on the classical books which cover the fundamental

concepts of the topic As a consequence of this the basic theory is stated in a compact manner and is not developed thoroughly as this would result in considerable duplication of existing books The main theme of the book has been to provide a comprehensive background to the methods available for the realization of both recursive and nonrecursive digital filters and to give an insight into some of the more recent implementation procedures The book is planned to cover one and two dimensional systems in parallel showing the techniques which are applicable in both areas and also the limitations and constraints necessary when a one dimensional technique is extended to systems of higher dimensionality The theme of the book commences with several chapters on the design of filter transfer functions to meet given specifications This is followed by a discussion of methods of implementing these in a practical system and the limitations imposed as a result of noise and finite word length Finally a discussion of some applications is included Two-Dimensional Digital Filters for Image Processing Applications Muhammad Tariqus Salam,2011-10 A design of two dimensional 2D digital filter with monotonic amplitude frequency responses using Darlington type gyrator networks by the application of Generalized Bilinear Transformation GBT The advantage of the proposed method is that the resulting 2D digital filters provide stable monotonic amplitude frequency responses desired cutoff frequencies and bandwidths A digital filter transformation method is also proposed in this paper and the concept of the method is that the coefficients of a digital transfer function which is transformed from a stable 2D analog Darlington type gyrator networks filter are defined as functions of gyrator constant g

Investigation of Optimal Linear Shift-Invariant Two-Dimensional Digital Filters Richard B. Brown,AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING.,1977 This investigation develops an interactive computer aided method for designing lowpass or highpass two dimensional finite impulse response digital filters Filters designed using this method will have linear phase and an equiripple error in the transmission and attenuation bands The essence of the method is that it transforms an optimal one dimensional digital filter into a close approximation of an optimal two dimensional digital filter The amplitude characteristic of the one dimensional filter is preserved in the sense that each point of the one dimensional frequency response is mapped to a contour in the two dimensional plane This transformation was first proposed by James H McClellan and is now called McClellan Transformation By controlling the mapping of a specified one dimensional frequency to a desired contour shape in the plane two dimensional filters of fairly arbitrary specifications can be designed that is their frequency can be determined and the associated two dimensional impulse response coefficients calculated Author *Design of Two-dimensional Digital Filters Using Singular-value Decomposition* Hui Ping Wang,1991 **The Design and Application of Two Dimensional Digital Filters** Christopher John Harrison,1978 *Study of Elliptically Symmetrical Two-dimensional Digital Filters Possessing Separable Denominator Transfer Functions* Keerthi Chandra Lavu,2004 **Two-dimensional Digital Filters** Hamid R. Bahadori,University of California, Berkeley. Department of Electrical Engineering and Computer Sciences,1980 One and Two Dimensional

Digital Filters with Reduced Multiplier Needs and Improved Performance Richard Crane Schneider,1978 The Circuits and Filters Handbook Wai-Kai Chen,2002-12-23 A bestseller in its first edition The Circuits and Filters Handbook has been thoroughly updated to provide the most current most comprehensive information available in both the classical and emerging fields of circuits and filters both analog and digital This edition contains 29 new chapters with significant additions in the areas of computer **The Circuits and Filters Handbook (Five Volume Slipcase Set)** Wai-Kai Chen,2018-12-14 Standard setting groundbreaking authoritative comprehensive these often overused words perfectly describe The Circuits and Filters Handbook Third Edition This standard setting resource has documented the momentous changes that have occurred in the field of electrical engineering providing the most comprehensive coverage available More than 150 contributing experts offer in depth insights and enlightened perspectives into standard practices and effective techniques that will make this set the first and most likely the only tool you select to help you with problem solving In its third edition this groundbreaking bestseller surveys accomplishments in the field providing researchers and designers with the comprehensive detail they need to optimize research and design All five volumes include valuable information on the emerging fields of circuits and filters both analog and digital Coverage includes key mathematical formulas concepts definitions and derivatives that must be mastered to perform cutting edge research and design The handbook avoids extensively detailed theory and instead concentrates on professional applications with numerous examples provided throughout The set includes more than 2500 illustrations and hundreds of references Available as a comprehensive five volume set each of the subject specific volumes can also be purchased separately **Two-Dimensional Digital Filters with Minimum Cycle Time** Kich Man Ty,1985 The Design of Two-dimensional Digital Filters by Generalized McClellan Transformations Thomas F. Quatieri,1975 *Analysis and Design of Two-dimensional Digital Filters from Lumped and Distributed Prototypes* Y. Tayeb,1983

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