

ADAPTIVE FILTERING PRIMER with MATLAB®

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Adaptive Filtering Primer With Matlab Adaptive Filtering Primer With Matlab

Alexander D. Poularikas



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Understanding Digital Signal Processing with MATLAB® and Solutions Alexander D. Poularikas,2017-11-13 The book discusses receiving signals that most electrical engineers detect and study The vast majority of signals could never be detected due to random additive signals known as noise that distorts them or completely overshadows them Such examples include an audio signal of the pilot communicating with the ground over the engine noise or a bioengineer listening for a fetus heartbeat over the mother s The text presents the methods for extracting the desired signals from the noise Each new development includes examples and exercises that use MATLAB to provide the answer in graphic forms for the reader s comprehension and understanding **Digital Signal Processing with Matlab Examples, Volume 2** Jose Maria

Giron-Sierra,2016-12-02 This is the second volume in a trilogy on modern Signal Processing The three books provide a concise exposition of signal processing topics and a guide to support individual practical exploration based on MATLAB programs This second book focuses on recent developments in response to the demands of new digital technologies It is divided into two parts the first part includes four chapters on the decomposition and recovery of signals with special emphasis on images In turn the second part includes three chapters and addresses important data based actions such as adaptive filtering experimental modeling and classification **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

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