Department of Electronic and Telecommunication Engineering University of Moratuwa, Sri Lanka

EN3030 - Circuits and Systems Design



FPGA Based Processor Design

Project Report

Submitted by

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Abstract

Design procedure of a Finite Duration Impulse Response(FIR) bandpass Digital Filter which satisfies a set of prescribed specifications, is described in this report where windowing method in conjunction with the Kaiser window is used for the designing procedure. Operation of the filter was analyzed with a combination of sinusoidal signals. The design was implemented and tested using MATLAB R2018a of the MathWorks Inc.

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*PDF is clickable

Note:

All the materials and executable MATLAB R2018a Live Script related to the project can also be found at https://github.com/bimalka98/Digital-Signal-Processing

Bibliography