



**Institute
of Cybernetics**

TOMSK POLYTECHNIC UNIVERSITY



Development of Mobile Application for Equalization of Digital Audio System

Ovchinnikova Anastasia
8T21

December 15
2015

The structure of presentation

- Introduction
- Related Works
- Band Pass Filter
- Graphic Equalizer
- Conclusions and Future Work



Introduction



Digital audio is technology that can be used to record, store, generate, manipulate, and reproduce sound using audio signals encoded in digital form.

Related Works

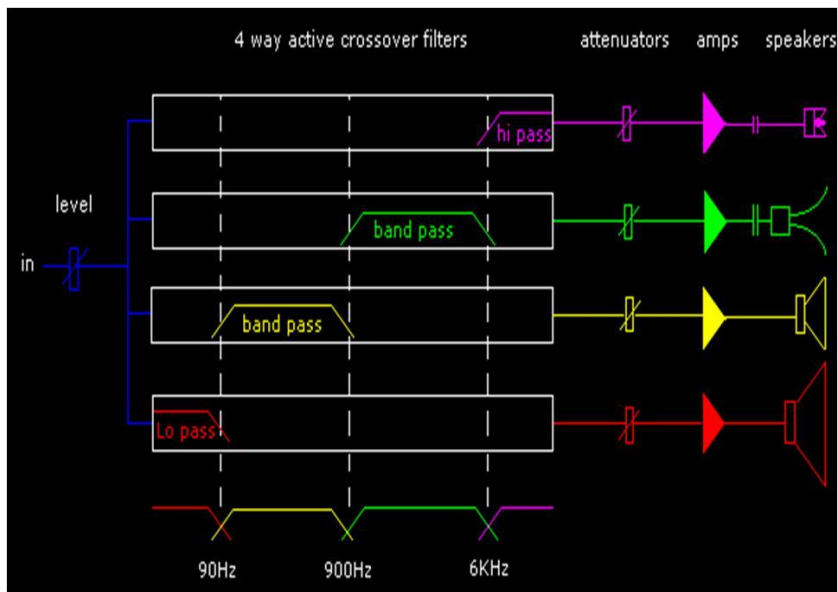


Figure 1. Crossover Diagram

Related Works

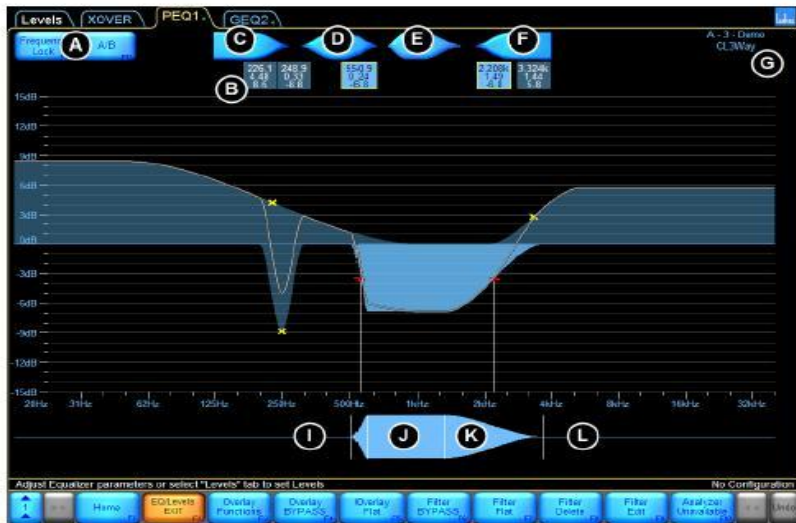


Figure 2. Sample of Graphic Equalizer

Band Pass Filter



Figure 3. Band Pass Filter on PC

Band Pass Filter



Figure 4. Band Pass Filter on Android

Graphic Equalizer

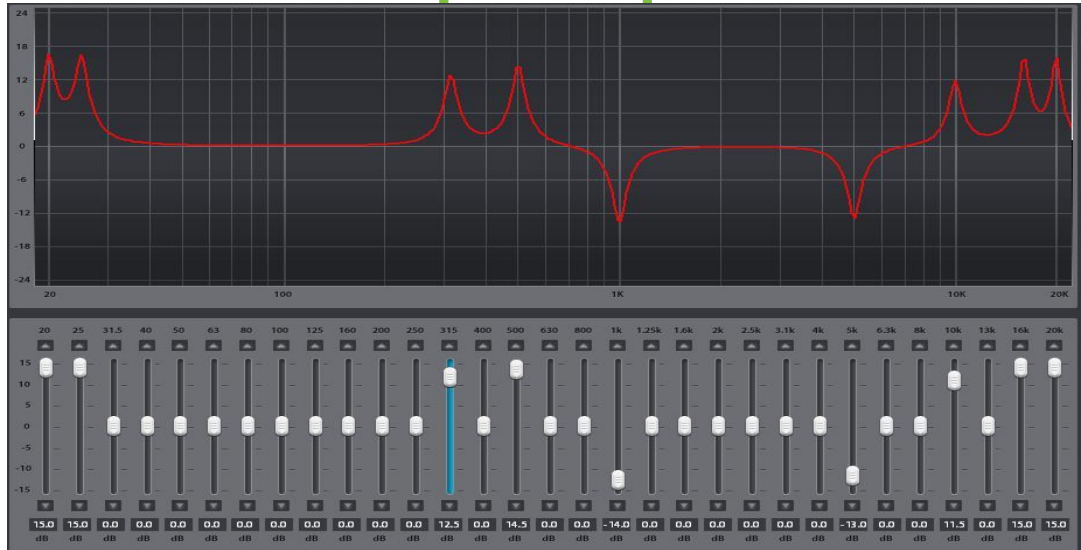


Figure 5. Graphic Equalizer on PC

Graphic Equalizer

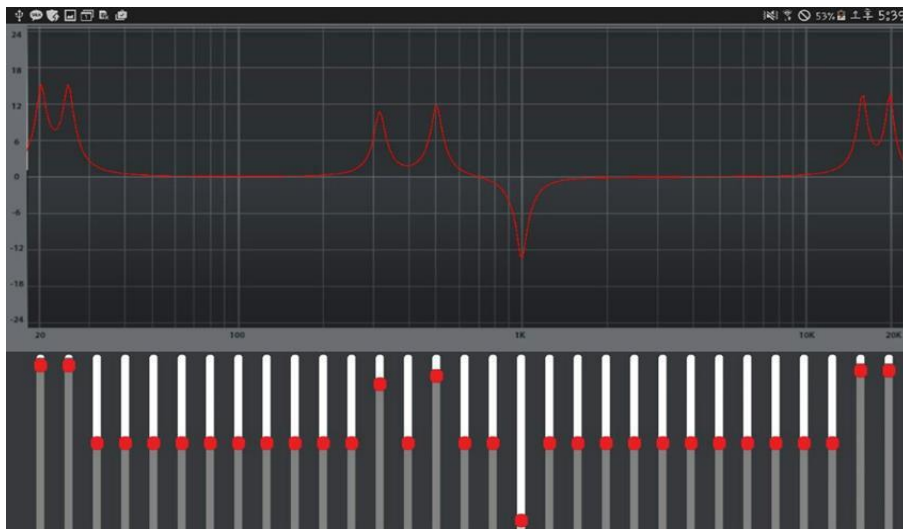


Figure 6. Graphic Equalizer on Android

Conclusions and Future Work



A digital audio system for concert in opera theater or concert hall must be installed a lot of speaker units. They are connected by networks each other. If the size of opera theater for playing the concert is big then many speaker units are needed.



**Institute
of Cybernetics**

TOMSK POLYTECHNIC UNIVERSITY

Thank you for your attention!