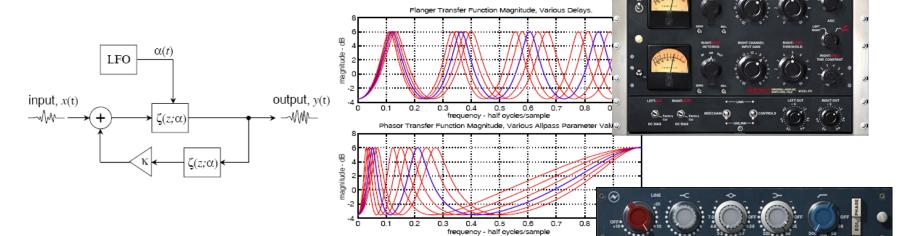
Music 424 / EE 367D Signal Processing Techniques for Digital Audio Effects



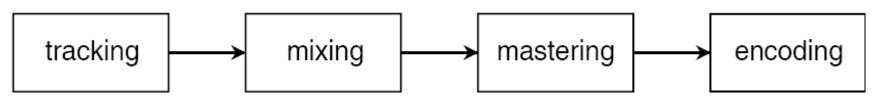
Jonathan S. Abel David P. Berners



TA: Doga Cavdir



Introduction

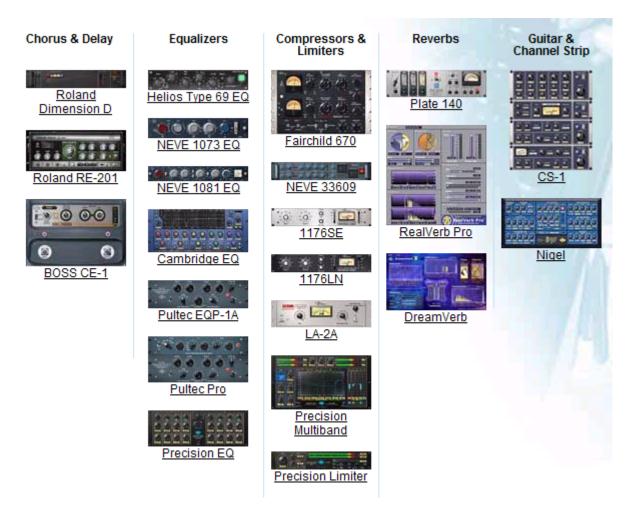


Audio Production Process

- Music is typically produced in four steps: tracking, mixing, mastering and encoding.
- This class is about how to build digital versions of the mainline effects used in mixing and mastering.
- Dynamic range control
- Reverberation and room acoustics
- Equalization and filter design
- Distortion and delay effects



Mixing and Mastering Effects





Lecture Outline

- Handouts
 - Course Information
 - Course Overview
 - Prerequisite Questionnaire
 - Class e-mail list
- Course Information
- Course Overview and Demo









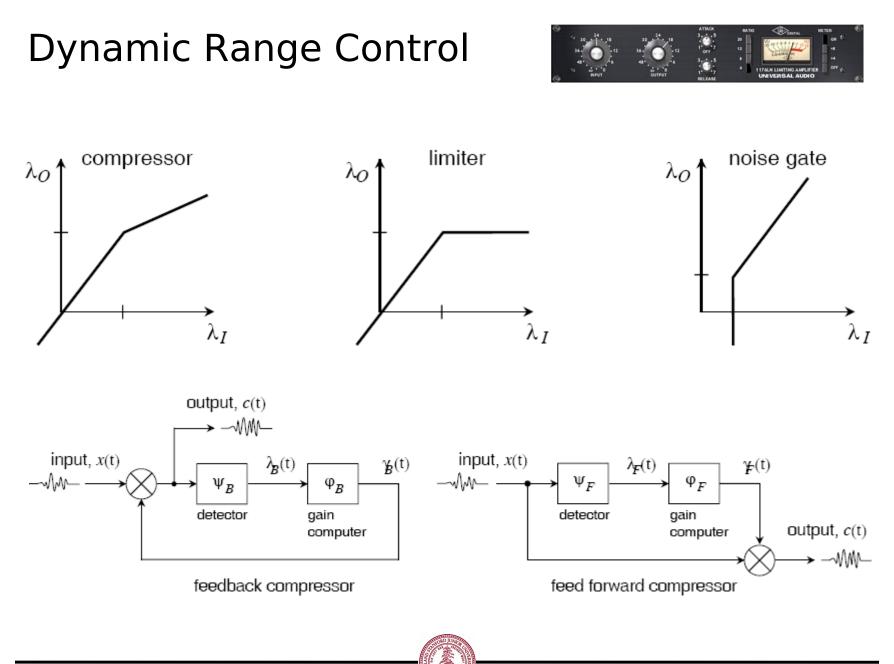




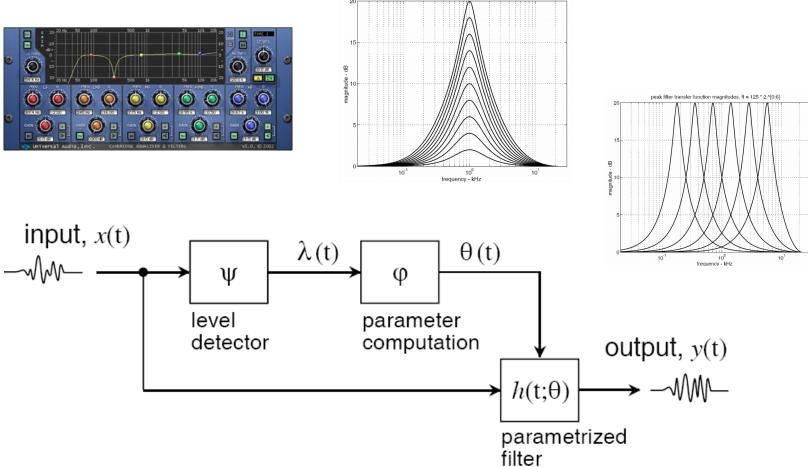




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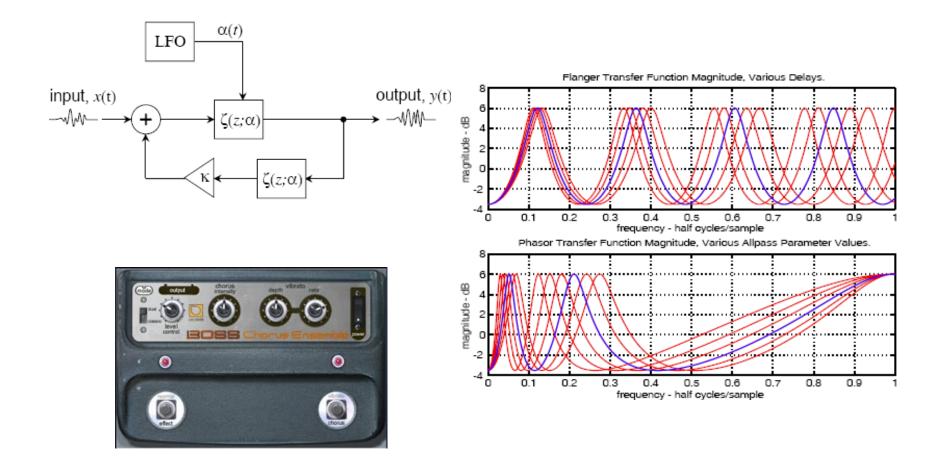
Equalization



peak filter transfer function magnitudes, gain = [2:2:20]

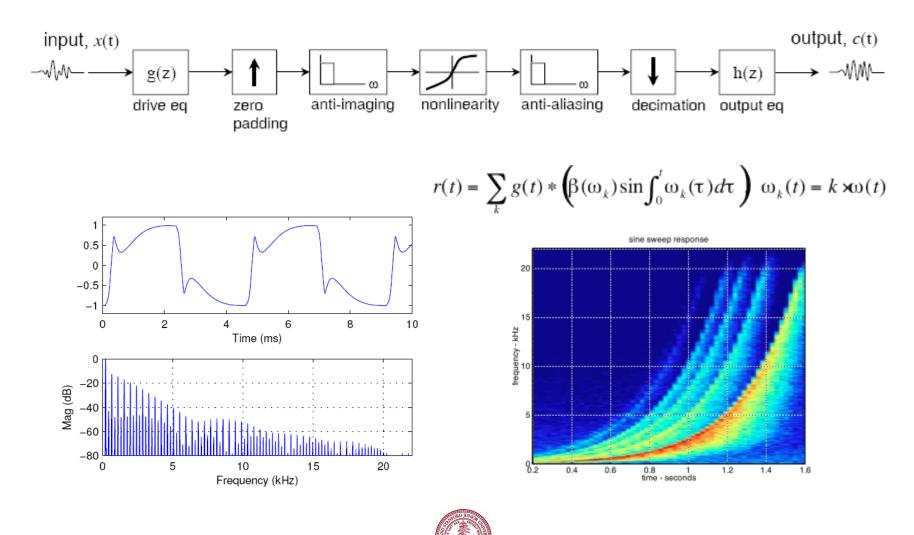


Delay Effects





Distortion Processing



Room Acoustics and Reverberation

