

## Sound engineering course

<b>1.Acustics</b>	<p>Fundamentals of acoustics: nature of sound, physical quantities, propagation, point and line sources.</p> <p>Psychoacoustics: sound levels in dB, sound perception, spectral analysis, phons, weighting curves</p> <p>Outdoors acoustics: effects of temperature, humidity, wind, diffraction, shielding, air absorption</p> <p>Indoors acoustics: reflection, transmission and absorption, semi-reverberant field, critical distance. Time history of sound, reverberation, reverberation time (RT).</p> <p>Impulse Response measurement: Measurement of the Impulse Response and of the Acoustical Parameters. Workshop about measurement of impulse response and acoustical parameters in a room.</p>
<b>2.Transducers</b>	<p><u>The Loudspeaker as Electroacoustic transducer (Personal, RCF and ASK documentation, Beranek's book, Davis' book and other books):</u></p> <ol style="list-style-type: none"> <li>1. <u>Why an Electroacoustic transducer?</u></li> <li>2. <u>Recalling of Sound Wave equation: plane waves and spherical waves, pressure and particle velocity, power radiation, intensity.</u></li> <li>3. <u>Acoustic radiation from a simple source and a combination of 2 or more sources.</u></li> <li>4. <u>The vibration of a rigid disc in a baffle and its acoustic properties, as a physical reference.</u></li> <li>5. <u>Vibration driving force as a magnetic-electric-mechanic interaction: theoretical transducer as a combination of a electromagnetic motor and a sound radiator. Main equation and motion study. Steady state behavior.</u></li> </ol> <p><u>Equivalent circuit of an Electro-dynamic Loudspeaker (Personal, RCF and ASK documentation, Dr. Small's AES papers and Davis' book):</u></p> <ol style="list-style-type: none"> <li>1. <u>Acoustic-Mechanic-Electric complex system as theoretical transducer, transient response after the approximated model.</u></li> <li>2. <u>Toward a real loudspeaker and analysis to its real parts: a) sound radiator: vibration modes and diaphragms materials 2) motor: a) voice coil structure and design, b) Magnet materials, structure and design, c) spider and suspensions structure and design.</u></li> </ol> <p><u>Electro-Dynamic Loudspeaker sound radiation analysis (Personal, RCF and ASK documents, Dr. Small's AES papers taken as reference) - Cabinet:</u></p> <ol style="list-style-type: none"> <li>1. <u>Loudspeaker equivalent circuit and its main components: the Thiele-Small parameters.</u></li> <li>2. <u>Loudspeaker in a cabinet: closed box analysis</u></li> <li>3. <u>Loudspeaker in a cabinet: bass-reflex and passive radiator analysis, to increase efficiency at low frequencies</u></li> <li>4. <u>Examples to be given (possibly real products): closed box and bass reflex (showing the ducts)</u></li> <li>5. <u>Some example from real data-sheet</u></li> </ol> <p><u>Electro-Dynamic Loudspeaker sound radiation analysis (RCF documents, Klipsch AES papers, D. B. Keele AES papers, Dr. Henninksen's AES papers, Pioneer's Beryllium AES papers, David Bie AES paper, Stefano Prati et alit. AES paper taken as reference) – Horn loading:</u></p> <ol style="list-style-type: none"> <li>1. <u>Horn loading for low and mid low frequencies, for loudspeakers in a cabinet (folded horn and <math>\frac{1}{4}</math> lambda horn)</u></li> <li>2. <u>Horn loading for mid and high frequencies: compression drivers</u> <ol style="list-style-type: none"> <li>a. <u>compression structure to increase efficiency</u></li> <li>b. <u>horn loading for adapting and matching the acoustic load</u></li> </ol> </li> <li>3. <u>Examples to be given (existing folded horn subwoofer, horn-loaded midrange, compression drivers and horns)</u></li> </ol> <p><u>Exercise session [Simulation with WINCROSS, bass-box or other Simulation SW – T/S and Impedance Curve measuring through CLIO]</u></p> <p><u>Electro-Dynamic Loudspeakers Distortion analysis (RCF material, W. Klippel's AES papers, R.</u></p>

# Sound Engineering Guide

**AW Chickering**



## **Sound Engineering Guide:**

## **Sound Engineering Guide** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Sound Engineering Guide**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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