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Sharpness, Fluctuation Strength,

Roughness Psychoacoustics -

Loudness The Art Of Production:

Rose - Techno Psychoacoustics 5.

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Psychoacoustics: Explaining

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Dissonance | Susan Rogers | Berklee

Online Alan Kraemer discussing

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Plant How Sound Works (In Rooms)

~~How to translate the feeling into~~

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sound recording techniques: Research
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Expert Audio Series - Speaker and
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Live Sound 101: Introduction

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The psychoacoustic model provides for high quality lossy signal compression by describing which parts of a given digital audio signal can be removed (or aggressively compressed) safely—that is, without significant losses in the (consciously)

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perceived quality of the sound.

And Sound

Psychoacoustics - Wikipedia

Width is the stereo field from left to right. A key psychoacoustic principle used to achieve the illusion of width is the Haas effect, which explains that when two identical sounds occur

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Sound Quality Evaluation,
within 30 milliseconds of one another,
we perceive them as a single event.

Depending on the source material, the
delay time can reach 40 ms.

Psychoacoustics: How Perception
Influences Music Production

For the evaluation of sounds, basic

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And Sound
psychoacoustic magnitudes like loudness and sharpness have proven successful, which assess volume or power and tone color of sounds, respectively. Using these descriptors, extremely different questions like the quality of piano sounds or the annoyance of snoring sounds can be

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assessed. Quality Evaluation

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Sound sound (including noise, speech,
and music). Psychoacoustics is an

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Quality The psychoacoustic

magnitude sharpness plays an

important part in sound quality

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engineering since it can be regarded
as measure of tone colour (cf. von
Bismarck 1974). The Psychoacoustics
of Sound-Quality Evaluation: Ingenta

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Quality Evaluation And Sound

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Sound Quality Evaluation

Psychoacoustic parameters like loudness, sharpness, tonality or roughness have to be taken into account to achieve a complete rating of sound quality. The implemented algorithms calculate the most important psychoacoustic parameters which are then integrated into the

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acoustic mapping. The values are represented by a color scale and superposed to the optical image of the investigated object.

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files for free. psychoacoustic features
the rating of original and processed
sound differ considerably, this can be
an indication that the information
about the sound source, ie a cognitive
effect, may

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roughness can play an important part.

In sound quality ... Psychoacoustic basis of sound quality evaluation and sound ... For the evaluation of sounds, basic psychoacoustic magnitudes like loudness and sharpness have proven successful, which assess volume or

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power and tone color of sounds,
respectively.

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Quality Evaluation And Sound

The development of the equation for
sound quality based on subjective
psychoacoustic metrics suggests that

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fluctuation strength and tonality are important features for evaluating sound quality. Fluctuation strength indicates the unstable operation of suction units, and tonality is a well-known cause of noise annoyance.

Validating impeller geometry

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Sound Quality Evaluation
optimization for sound...

Psychoacoustic metrics determination.

Based on OROS instruments recorded time signals, the main psychoacoustic metrics can be determined are:

Loudness: DIN 45631/A1, ISO 532B, ISO 532-1, ISO 532-2. Sharpness.

Fluctuation strength. Roughness.

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Sound Quality software modules,
psychoacoustics & sound ...

According to Zwicker and Fastl, the most used psychoacoustic parameters for the sound quality assessment include loudness, sharpness, roughness and fluctuation strength.

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The combination of these fundamental psychoacoustical quantities may, in many experiments, predict the sound quality assessment by the subjects.

Development of psychoacoustic model based on the ...

Psychoacoustics combines the study

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of acoustics and auditory physiology
to determine the relationship between
a sound ' s characteristics and the
auditory sensation that it provokes.
Loudness is the subjective measure of
perceived sound intensity.

Psychoacoustics | Cochlea

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A Perceptual Speech-Quality Measure
Based on a Psychoacoustic Sound
Representation A general method for
predicting the subjective quality of
speech codecs has been developed.
This method uses the concept of an
internal sound representation.

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AES E-Library » A Perceptual Speech-
Quality Measure Based ...

Acoustic quality is defined as the degree to which the totality of the individual requirements made on an auditory event are met. Acoustic quality comprises three different kinds of influencing variables:

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physical (sound field), psychoacoustic (auditory perception), and psychological (auditory evaluation).

OBJECTIVE EVALUATION OF
ACOUSTIC QUALITY BASED ON A ...
Psychoacoustic Test Bench is an
advanced option which can be run as

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And Sound
an addition to Sound Quality. It controls the specific objective tests (metrics) carried out by Sound Quality and also implements the two subjective test methods – Paired Comparison and Semantic Differential.

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