

Psychoacoustic Basis Of Sound Quality Evaluation And Sound

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Live Sound 101: Introduction Psychoacoustic Basis Of Sound Quality
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) perceived quality of the 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 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 psychoacoustic magnitudes like loudness and sharpness have proven successful, which assess volume or power and tone color of

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sounds, respectively. Using these descriptors, extremely different questions like the quality of piano sounds or the annoyance of snoring sounds can be assessed.

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Download Ebook Psychoacoustic Basis Of Sound Quality Evaluation And Sound sound (including noise, speech, and music). Psychoacoustics is an interdisciplinary field of many areas,

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Psychoacoustic Basis Of Sound Quality The psychoacoustic magnitude sharpness plays an important part in sound quality 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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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 acoustic mapping. The values are represented by a color scale and superposed to the optical image of the investigated object.

Psychoacoustics / Sound Quality - acoustic-camera.com

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Psychoacoustics and Sound Quality - TUM Psychoacoustic-Basis-Of-Sound-Quality-Evaluation-And-Sound 2/3 PDF Drive - Search and download PDF 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 power and tone color of sounds, respectively.

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

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. 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 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

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.

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: 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 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.

Psychoacoustics offers a unique, comprehensive summary of information describing the processing of sound by the human hearing system. The third edition includes an additional chapter on audio-visual interactions and applications, plus more on applications throughout.

- Speech Generation: Acoustics, Models and Applications (Arild Lacroix). - The

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Evolution of Digital Audio Technology (John Mourjopoulos). - Audio-Visual Interaction (Armin Kohlrausch) . - Speech and Audio Coding (Ulrich Heute) . - Binaural Technique (Dorte Hammerhoei, Henrik Moeller). - Auditory Virtual Environment (Pedro Novo). - Evolutionary Adaptions for Auditory Communication (Georg Klump). - A Functional View on the Human Hearing Organ (Herbert Hudde). - Modeling of Binaural Hearing (Jonas Braasch). - Psychoacoustics and Sound Quality (Hugo Fastl). - Semiotics for Engineers (Ute Jekosch). - Quality of Transmitted Speech for Humans and Machines (Sebastian Möller).

Loudness is the primary psychological correlate of intensity. When the intensity of a sound increases, loudness increases. However, there exists no simple one-to-one correspondence between loudness and intensity; loudness can be changed by modifying the frequency or the duration of the sound, or by adding background sounds. Loudness also changes with the listener's cognitive state. Loudness provides a basic reference for graduate students, consultants, clinicians, and researchers with a focus on recent discoveries. The book begins with an overview of the conceptual thinking related to the study of loudness, addresses issues related to its measurement, and later discusses the physiological effects of loud sounds, reaction times and electrophysiological measures that correlate with loudness. Loudness in the laboratory, loudness of steady-state sounds and the loudness of time-varying sounds are also covered, as are hearing loss and models.

This book provides a broad overview of spaciousness in music theory, from mixing and performance practice, to room acoustics, psychoacoustics and audio engineering, and presents the derivation, implementation and experimental validation of a novel type of spatial audio system. Discussing the physics of musical instruments and the nature of auditory perception, the book enables readers to precisely localize synthesized musical instruments while experiencing their timbral variance and spatial breadth. Offering interdisciplinary insights for novice music enthusiasts and experts in the field of spatial audio, this book is suitable for anyone interested in the study of music and musicology and the application of spatial audio mixing, or those seeking an overview of the state of the art in applied psychoacoustics for spatial audio.

An authoritative reference on all aspects of audio engineering and technology including basic mathematics and formulae, acoustics and psychoacoustics, microphones, loudspeakers and studio installations. Compiled by an international team of experts, the second edition was updated to keep abreast of fast-moving areas such as digital audio and transmission technology. Much of the material has been revised, updated and expanded to cover the very latest techniques. This is a new paperback version.

This book comprises twelve articles which cover a range of topics from musical instrument acoustics to issues in psychoacoustics and sound perception as well as neuromusicology. In addition to experimental methods and data acquisition, modeling (such as FEM or wave field synthesis) and numerical simulation plays a central role in studies addressing sound production in musical instruments as well as interaction of radiated sound with the environment. Some of the studies have a focus on psychoacoustic aspects in regard to virtual pitch and timbre as well as apparent source width (for techniques such as stereo or ambisonics) in music

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production. Since musical acoustics imply subjects playing instruments or singing in order to produce sound according to musical structures, this area is also covered including a study that presents an artificial intelligent agent capable to interact with a real ('analog') player in musical genres such as traditional and free jazz.

The volume presents a collection of 44 peer-reviewed articles from the First International Conference on Intelligent Systems in Production Engineering and Maintenance (ISPEM 2017). ISPEM 2017 was organized by the Faculty of Mechanical Engineering, Wrocław University of Science and Technology and was held in Wrocław (Poland) on 28–29 September 2017. The main topics of the conference included the possibility of using widely understood intelligent methods in production engineering. New solutions for innovative plants, research results and case studies taking into account advances in production and maintenance from the point of view of Industry 4.0 were presented and discussed—with special attention paid to applications of intelligent systems, methods and tools in production engineering, maintenance, logistics, quality management, information systems, and product development. The volume is divided into two parts: 1. Intelligent Systems in Production Engineering 2. Intelligent Systems in Maintenance This book is an excellent reference resource for scientists in the field of manufacturing engineering and for top managers in production enterprises.

This handbook delivers a complete and practice-oriented overview of the fundamentals of today's telecommunications networks and the future prospects for next generation networks (NGN). The very clear and concise text is supplemented by many colour illustrations and embedded into a functional four-colour layout.

Addresses a wide selection of multimedia applications, programmable and custom architectures for the implementations of multimedia systems, and arithmetic architectures and design methodologies. The book covers recent applications of digital signal processing algorithms in multimedia, presents high-speed and low-priority binary and finite field arithmetic architectures, details VHDL-based implementation approaches, and more.

With this comprehensive and accessible introduction to the field, you will gain all the skills and knowledge needed to work with current and future audio, speech, and hearing processing technologies. Topics covered include mobile telephony, human-computer interfacing through speech, medical applications of speech and hearing technology, electronic music, audio compression and reproduction, big data audio systems and the analysis of sounds in the environment. All of this is supported by numerous practical illustrations, exercises, and hands-on MATLAB® examples on topics as diverse as psychoacoustics (including some auditory illusions), voice changers, speech compression, signal analysis and visualisation, stereo processing, low-frequency ultrasonic scanning, and machine learning techniques for big data. With its pragmatic and application driven focus, and concise explanations, this is an essential resource for anyone who wants to rapidly gain a practical understanding of speech and audio processing and technology.