

1. Record Nr.	UNINA9910451005303321
Titolo	Traditional rating of noise versus physiological costs of sound exposures to the hearing [[electronic resource] /] / edited by Helmut Strasser
Pubbl/distr/stampa	Amsterdam ; ; Washington, DC, : IOS Press, 2005
ISBN	1-280-81046-7 9786610810468 1-4294-6760-6 1-60750-137-6 600-00-0594-6 1-4337-0154-5
Descrizione fisica	1 online resource (240 p.)
Collana	Biomedical and health research ; ; v. 66
Altri autori (Persone)	StrasserHelmut
Disciplina	363.74
Soggetti	Noise - Physiological effect Sound - Physiological effect Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Title page; Preface; Contents; Problems of Measurement, Evaluation, and Rating of Environmental Exposures in Occupational Health and Safety Associated with the Dose Maxim and Energy Equivalence Principle; Impulse Noise Exposures, Present in Civil and Military Sectors; Noise Immissions from Working with Bolt Setting Tools in the Construction Sector; Methods for Quantifying Hearing Threshold Shifts of Sound Exposures and for Depicting the Parameters TTS2, t(0 dB), and IRTTS Indicating the Physiological Costs to the Hearing Hearing Threshold Shifts and Restitution Course After Impulse and Continuous Noise at the Frequency of the Maximum Threshold Shift and the Adjacent Lower and Upper FrequenciesHearing Threshold Shifts and Their Restitution as Physiological Responses to Legally Tolerable Continuous and Impulse Noise Exposures with a Rating Level of 85 dB (A); Physiological Costs of Energy Equivalent Exposures to Continuous and Additional Energetically Negligible Noise; Influence of the Number

of Impulses and the Impulse Duration on Hearing Threshold Shifts
Investigations into the Efficiency of the Stapedius Reflex with Impulse
Noise SeriesPhysiological Costs of the Hearing After Exposures to White
Noise, Industrial Noise, Heavy Metal, and Classical Music of 94 dB(A) for
1 Hour; Temporary Hearing Threshold Shifts and Restitution Associated
with Exposures to Industrial Noise and Classical Music of 94 dB(A) for 1
Hour and 91 dB(A) for 2 Hours; Comparative Investigations into the
Physiological Responses to Heavy Metal, Techno, and Classical Music
Effects of Noise Exposures During Physical Rest, Additional Physical
Exercise and Combined Exposures to Alcohol and Cigarette Smoke on
Hearing Threshold Shifts and Their RestitutionQuantification of the
Insertion Loss of Personal Hearing Protection Devices by Means of a
Subjective Method and an Artificial Head Measuring System; Substantial
Protection Loss Associated with a Minimally Reduced Wearing Time of
Hearing Protectors - Fiction or Reality?; Influence of Reduced Wearing
Time on the Attenuation of Earplugs - Prognosis by the 3-dB Exchange
Rate Versus Audiometric Measurements
Dubious Risk Prevention via Traditional Rating of Whole-Body
Vibrations, UV Radiation, and Carbon MonoxideAuthor Index

Sommario/riassunto

In occupational safety and health acts, ordinances, regulations, directives, standards and guidelines, A-weighted sound exposures, varying in level and duration, are traditionally converted to an 8-hour-average sound level by applying the 3-dB exchange rate. Under the prerequisite that the energy equivalent rating level does not exceed 85 dB(A)/8 h, even impulse noise exposures of up to 140 dB are declared harmless. Indeed, the mutual settlement of level and duration based on the concept of energy equivalence is correct as far as sound energy or physical dose is concerned. However, between thi
