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Nota di contenuto	Perceptual Audio Evaluation-Theory, Method and Application; Contents; Preface; Organisation of the Book; Acknowledgments; 1 Introduction; 1.1 Motivation for Listening Tests; 1.2 Role of Standardisation; 1.3 Role of Predictive Models; I Experimental Considerations; 2 Definition of Research Question and Hypothesis; 2.1 Principle of Empiricism; 2.2 Principle of Rationalism; 2.3 Other Principles of Scientific Argumentation; 2.3.1 Probabilistic Reasoning; 2.3.2 Argumentum ad Hominem; 2.3.3 Conclusion by Analogy; 2.4 Summary; 3 Fundamentals of Experimentation; 4 Quantification of Impression 4.1 Response Attribute4.1.1 Perceptual Measurements; 4.1.2 Affective Measurements; 4.2 Response Format; 4.2.1 Direct Scaling; 4.2.2 Indirect Scaling; 4.2.3 Selection of an Appropriate Scaling Procedure; 4.2.4 Context and Bias Effects; 4.2.5 Other Bias Effects; 4.3 Overview of Process; 5 Experimental Variables; 5.1 Signal; 5.1.1 Signal Category; 5.1.2 Recording Technique, Storage and Encoding; 5.1.3 Time Domain Characteristics; 5.1.4 Spectral Characteristics; 5.1.5 Spatial Characteristics; 5.1.6 Reference Signals; 5.2 Reproduction System; 5.3 Listening Room; 5.4 Subject Considerations

Sommario/riassunto	As audio and telecommunication technologies develop, there is an increasing need to evaluate the technical and perceptual performance of these innovations. A growing number of new technologies (e.g. low bit-rate coding) are based on specific properties of the auditory system, which are often highly non-linear. This means that the auditory quality of such systems cannot be measured by traditional physical measures (such as distortion, frequency response etc.), but only by perceptual evaluations in the form of listening tests. Perceptual Audio Evaluation provides a comprehen