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Abstract

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End-of-Line Evaluation of Sound and Vibration Quality

End users do increasingly complain about sound and vibration quality. As more vehicles become increasingly quiet, the emphasis is put on the perceived operational sound of single components. Psychoacoustics is necessary to identify if a device is perceived as high-quality, bad or even defective. Measuring sound pressure level would not be sufficient. A sound quality metric reduces development time because at each development step end user's acoustical perception can be predicted using the metric. Tools and methods are presented how to identify in End-of-Line applications whether a device under test sounds good or unacceptable.