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The gearbox noise problem solution is
focused on the improvement of gear
design; on the verification of its effect
on the radiated noise and the

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determination of the gears' contribution to the...

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Prediction and Control Methods ...

The gearbox noise problem solution is focused on improvement of gear design, on verification of its effect on the radiated noise and determination of the gears contribution to the truck or car...

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gearbox noise level Harmonics of the base toothmeshing frequency and their sidebands due to the modulation effects, that are well audible; the noise and vibration of the geared axis systems is originating from parametric self-excitation due to the time variation of tooth-contact stiffness during the mesh cycle,

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Gear Noise and Vibration Prediction and Control Methods

A gear test rig was used to measure noise and vibration from a test gearbox equipped with the reference and new gears. The test rig is described in more detail in Åkerblom. Optical encoders and a...

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an important excitation mechanism for gear noise, was predicted and measured. LDP software from Ohio State University was used for the transmission error computations. A specially built test rig was used to measure gearbox noise and vibration

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for the different test gear pairs. The measurements show that disas-

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Prasad Prabhakar Kulkarni 2 , Nitin
Narayan Sarode 3 4Kunal Uday
Shinde 1,2,3,4 Assistant Professor,
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Current literature on gearbox noise
and vibration is usually focused on a
particular problem such as gearbox
design without a detailed description
of measurement methods for noise
and vibration testing. Vehicle Gearbox
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Signal Analysis, Signal Processing and

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Noise Reduction Measures addresses this need and comprehensively covers the sources of noise and vibration in gearboxes and describes various methods of signal processing. It also covers gearing design ...

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measured noise level and dB(VINS) prediction, an under-prediction of up to 10 dB(A) is noticed. This separation is caused by the following two factors:

- The peak at 1900 rpm is caused by two factors: torsional vibration peak in this vicinity (see peak at 2100 rpm in Figure 8 and for driveline

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