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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

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parametric self-excitation due to the time variation of tooth-contact stiffness during the mesh cycle,

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testing of ...

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duction at a distance of 1 m.

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

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A STUDY OF GEAR NOISE AND
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Gearbox Noise & Vibration Prediction and
Control Chetan Ramesh Patil 1 , Prasad
Prabhakar Kulkarni 2 , Nitin Narayan
Sarode 3 4Kunal Uday Shinde 1,2,3,4
Assistant Professor, Dept of Mechanical ...

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Control

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 Noise and Vibration:
Measurement, Signal Analysis, Signal
Processing and 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

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Vehicle Gearbox Noise and Vibration:
Measurement, Signal ...

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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