

ANALYSIS OF NOISE, VIBRATION AND HARSHNESS (NVH) AND ITS INFLUENCE ON VIBROTACTILE PERCEPTION

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ABSTRACT

The title of the project is “ANALYSIS OF NOISE, VIBRATION AND HARSHNESS (NVH) AND ITS INFLUENCE ON VIBROTACTILE PERCEPTION”. This study investigated human touch sensitivity under various conditions. Human body was constantly being subjected to NVH from a wide variety of sources such as vehicle, hand-tools and machineries. Steering system was designed to study the human touch sensitivity under various conditions. Steering system was tested with different subjects. Three male and three female were been tested. Discomfort data was collected from six subjects using steering system. Each testing condition compared with real life condition. Discomfort level for different body regions measured with scale system (1 to 10 scale system). Other than that, survey on public has been carried out in this report. Survey was done on different age’s people with different occupations. This survey was being administered as a part of scientific research project investigation upper body driving comfort. The output from the test was analyzed under different conditions and different duration.