



New roles of automotive NVH engineers in an era of change

Abstract

Downsize, light weight, eco-friendly car, electric control and convergence with ICT are main keywords of changes that NVH engineers should pay attention. These changes will act as negative side and positive side to the NVH development. Down size, light weight and emergence of eco-friendly cars provoked a change in the NVH measures. Typical measures such as heavy layers or various dampers are not welcomed by designers anymore. On the other hand, the development of electronic control and the combination of automotive and ICT are giving open new horizons. Automotive NVH should be developed taking into account the changed needs of customer; Fluctuation noise rather than its level should be improved, the initial quality is important, but now should be more focused on endurance quality. This presentation is also likely to show several real-world examples to give suggestion to NVH engineers in the changed environment.

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Dr. Ih was born in Pusan, South Korea on December 3, 1965. Dr. Ih graduated Seoul National University in 1989 as his BS in Naval Architecture Engineering and received his MS and Ph.D. in the Department of Aerospace from KAIST in 1991 and 1996 respectively. His major in the doctoral degree was aeroacoustics of vehicles, specializing in acoustic scattering and radiation. Since 1996, he had been working for Hyundai Motor Company in charge of developing wind noise performance of new vehicles and new technologies. In 2010, he became a research fellow in Hyundai Motor Company and expanded his roles in the field of road noise, BSR and convergence technology. He is mainly interested in harmonizing vehicle performances regarding to NVH, ride and handling.