

# RESEARCH ON THE OPTIMAL PARAMETERS OF SUSPENSION SYSTEMS FOR IMPROVED RIDE COMFORT MOVEMENT OF THE VEHICLE BY VIBRATION MODEL WITH 8 D.O.F

Lê Văn Quỳnh, Jianrun Zhang, Lê Đình Đạt, Lưu Văn Tuấn, Nguyễn Kim Bình

## TÓM TẮT:

Nowadays, requirements on the ride comfort and stable movement of vehicles have been higher and higher. As consequence, studies on the influences of suspension systems, tires or road roughness on the ride comfort and stable movement have been published by many researchers around the world. In this paper, the authors want to mention researches on the optimal parameters of suspension systems for improving ride comfort movement of the vehicles by vibration model with 8 D.O.F. Based on a that vibration model and the international standard ISO 2631-1:1997, the assessment of the impact of noise and vibration to human health has been evaluated and stiffness and damping coefficient parameters of the suspension systems for comfort of road vehicles also have been optimized.