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Improvement of the Heat and Sound Insulation of a Bus for Compliance with American Regulations

In this study, heat, noise and vibrations of 3-axle bus which was produced according to the American regulations were determined. Insulation designs were made according to heat levels, intensity of noise and vibration and frequency. Comfort conditions inside the bus and the American regulations outside the bus were provided. Heat sources of the bus were detected. Insulations which are able to prevent the heat generated by those sources to reach passenger cabin and other badly affected areas. Maps of noise and vibration of bus is determined, according to the intensity, wavelength and frequency of the noise, using these data more insulation designs were made to reach more comfortable and quieter bus.

Biography

Kadir Aydin received his B.Sc. degree in 1983 and M.Sc. degree in 1986 from the Mechanical Engineering Department of Cukurova University. He completed his Ph.D. degree in 1993 at the Department of Mechanical Engineering of Liverpool University. He became Assistant Professor in 1993, Associate Professor in 1995 and Professor in 2001 in the Mechanical Engineering Department of Cukurova University. He is Chairman of Automotive Engineering Department of Cukurova University and also General Manager of Cukurova Technopark. His special research areas are Internal Combustion Engines, Vehicle Technology, Combustion, Hydrogen and Electric Powered Vehicles, Alternative Fuels (Biodiesel, Bioethanol and Biogas). He published more than 150 national and international scientific papers.

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