

機械・精密システム工学科 学会発表

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演題名	Development of Vibration Isolation Gloves for High Workability
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内容	<p>Anti-vibration gloves are used as protective equipment for vibration obstacles, but due to the thick anti-vibration materials of gloves, poor workability is pointed out by operators such as difficulty in manual work using fingertips. Therefore, in view of workability, we aimed to develop protective equipment that maintains vibration isolation performance even if the thickness of the vibration proof material is thin from the present.</p> <p>Vibration measurement of ten kinds of materials with different materials and shapes was carried out, and vibration damping characteristics were analyzed and compared. With regard to the urethane-based material that was effective, we were able to develop a material with vibration damping performance (vibration transmission ratio less than 1) with a sheet thickness of 5 mm by examining the sheet shape, designing by simulation and vibration measurement / analysis.</p>