

Proposal for Excitation Acceleration in Vibration Endurance Testing of Signaling Equipment

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Signaling equipment is installed at a place where vibrations occur during the passage of trains over rails, sleepers, and roadbeds. It is therefore necessary to design signaling equipment taking into account the influence of vibration to avoid damage due to vibration. In recent years, the installation environment of signaling equipment has changed due to the speedup of trains and changes in tracks and structures. However, the details of vibration propagation to signaling equipment have not been investigated so far. In addition to current issues, this paper reports on a guideline for vibration acceleration amplitude in vibration endurance testing.