

**Proposal of a Setting Method of a Threshold Value for the Inspection of
Structure Considering its Seismic Performance**

Tomohiro KAWANISHI Seiji YAMADA Yoshitaka MURONO
Kazunori WADA Masahiro KORENAGA

In order to judge whether railway structures should be checked after the earthquake, a threshold value using a parameter expressing the level of earthquake motion is often established. This value is generally determined based on the damage of the railway facilities by the past earthquake, but not considering the seismic performance of the structure. In this paper, we propose a method to estimate the lower limit of earthquake motion, above which limit the structure will be damaged by the earthquake, and show a procedure to set a threshold value for the inspection of the structure considering the lower limit and the safety factor.