

Proposal of a New Type of Rigid Frame Viaduct Insusceptible to a Reverse Fault

Atsushi HINO Yoshitaka MURONO

For linear structures such as railway structures, it may be impossible to avoid building near a fault. Therefore, we have been studying strike slip faults. In this study, we evaluated the behavior of the rigid frame viaducts against the vertical surface fault displacement initiated by a reverse fault in order to propose an effective structure type for viaducts against such fault displacement. We studied three types of the viaduct; two types with many usage records and one type proposed in this study. As a result, we confirmed the effectiveness of the proposed type, one-span extension type viaduct, against the vertical surface fault displacement.