

Evaluation of the Seismic Response by the Model of the Structure and the Power Pole

Takashi KATO Kimitoshi SAKAI Yoshitaka MURONO

In the present design of the power poles on railway structures, seismic response of power poles is calculated using only horizontal response of structures as input force. The results of detailed analyses show that the response of the power poles can be affected by rotational response of structures in addition to the horizontal response. This paper proposed a new analytical method, which can consider the rotational response of structures on the seismic response of power poles. Finally, we verified the validity of the proposed method by some validation analyses.