

Research recovery of road structures and seismic strengthening (Part 1)

[Point]

Against the backdrop of the great damage of road bridges in the Great Hanshin Earthquake, to enforce recovery activity effectively for future earthquakes, establishment of technology system regarding whole process of recovery from earthquake damage, is required. Moreover, at present, regarding seismic strengthening measure for bridges, which construction condition is sever, their swift measures haven't been established, because of the large expense. In this research, we research the recovery technology from the earthquake damage by the Great Hanshin Earthquake to the recovery,, and proposed measure method for road bridge which is applied before earthquake, and earthquake recovery method. In addition, as seismic strengthening technology for bridges restricted construction condition, we developed seismic strengthening method considering construction applicability for RC rigid-frame bridge abutment beams' seismic strengthening method, and proposed seismic test method for existing bridges.

Keyword : the Great Hanshin Earthquake , earthquake recovery technology , seismic strengthening technology , RC rigid-frame bridge abutment, beam