

A STUDY ON PARTIAL FACTOR DESIGN METHOD FOR SEISMIC DESIGN OF HIGHWAY BRIDGES

Abstract : The objective of this project is to propose a partial factor design method based on reliability theories for highway bridges. In this study, the follows were conducted: (1) design method based on reliability theories was proposed; (2) reliability index β for twelve RC piers designed with the current seismic design code were calculated; (3) resistance factors were calculated by assuming the target reliability index β_T as 0.5, 1.0, 1.5, 2.0, 2.5 and 3.0.

Key words : seismic design, partial factor design, reliability index, resistance factor