Evaluation Method for Shear Strength of Reinforced Concrete Beam Subjected to Antisymmetrical Moment

Tomoaki MAEDA Toshiya TADOKORO Yukihiro TANIMURA

In horizontal beam (upper, middle, and underground beam) of rigid-frame viaduct, arrangement of reinforcements is dense and difficult. Because these members have deep beam structures, and tend to increase shear reinforcements as the earthquake load taken into account of the design increases. However, an evaluation method for shear strength of reinforced concrete beam is based on the tests of simply supported beams; an evaluation method for shear strength of horizontal beam of rigid-frame viaduct subjected to antisymmetrical moment is not defined. In this research, we executed the loading tests of reinforced concrete beams subjected to antisymmetrical moment, and examined an evaluation method for shear strength.