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PREDICTION METHOD FOR SEISMIC DAMAGE OF REINFORCED CONCRETE BRIDGE COLUMNS

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This research aims to determine the effect of loading pattern on the damage of a reinforced concrete bridge column. Five specimens were tested with uni-directional or bi-directional cyclic loading patterns combined with a constant axial load. In this report, a simple procedure to predict the damage and failure of a reinforced concrete column, that is subjected to an arbitrary seismic loading pattern, is proposed using the fatigue based damage model combined with the energy dissipation.

Key Words: bi-directional cyclic loading, RC column members, energy dissipation, damage index

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