

[Available Issues](#) | [Japanese](#)
[>> Publisher Site](#)
Author: Keyword:

Search

[ADVANCED](#)
[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

PRINT ISSN : 0289-8063

STRUCTURAL ENGINEERING / EARTHQUAKE ENGINEERING

Vol. 21 (2004) , No. 1 pp.11s-26s


[\[PDF \(1153K\)\]](#) [\[References\]](#)
EXPERIMENTAL STUDY OF REINFORCED CONCRETE BRIDGE PIERS SUBJECTED TO BI-DIRECTIONAL QUASI-STATIC LOADING
Kazuhiro TSUNO¹⁾ and Robert PARK²⁾

1) First Design Division, First Construction Department, Kanagawa Construction Bureau, Metropolitan Expressway Public Corp.

2) Dept of Civil Eng, University of Canterbury

(Received: February 17, 2003)

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 uniform axial load. From the test results, the theoretical plastic hinge zone length was calculated considering the yield penetration effect and the energy dissipated by the specimens was obtained.

Key Words: bi-directional cyclic loading, RC column members, plastic hinge zone length, energy dissipation


[\[PDF \(1153K\)\]](#) [\[References\]](#)
Download Meta of Article[[Help](#)][RIS](#)[BibTeX](#)

To cite this article:

Kazuhiro TSUNO and Robert PARK; "EXPERIMENTAL STUDY OF REINFORCED CONCRETE BRIDGE PIERS SUBJECTED TO BI-DIRECTIONAL QUASI-STATIC

doi:10.2208/jscseeee.21.11s

JOI JST.JSTAGE/jscseeee/21.11s

Copyright (c) 2004 by Japan Society of Civil Engineers



[Japan Science and Technology Information Aggregator, Electronic](#)

