## NAKANO LAB.

## [Seismic Damage Estimation of RC Building Structure] **Department of Fundamental Engineering**

http://sismo.iis.u-tokyo.ac.jp/

Earthquake Engineering / Structural Engineering

Faculty of Engineering, Dept. of Architecture

## Damage Estimation of Reinforced Concrete **Building Structures During Earthquakes**

On the subject of STRUCTURAL ...

- : Evaluation of Axial Load Capacity of Shear Failure Type RC Columns MEMBER
- : Seismic Performance Evaluation of RC Frames with URM Infill FRAME
- SYSTEM : Residual Seismic Capacity Evaluation for RC Buildings focusing on Failure Mechanism



Test Setup (Front View)

Measurement

.oadina

Test Setup



Institute of Industrial Science

-3 -2 -1 0

Drift Angle of 1st Floor (%)

Shear Force vs. Displacement

3

ent Ratio applicable to On-site

Residual Seismic Capacity Evaluation

(Theoretical Value vs. Simplified Procedure)

2

Drift Angle of 1st Floor (%)

3

-100

-150

Damage State

.4