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

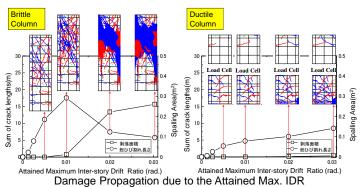
On the subject of STRUCTURAL ...

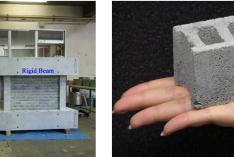
: Seismic Damage Evaluation of Brittle and Ductile members **MEMBER** : Seismic Performance Evaluation of RC Frames with URM Infill **FRAME**

SYSTEM : Residual Displacement Prediction applying the Capacity Spectrum Method



Damage after IDR=1/33rad.





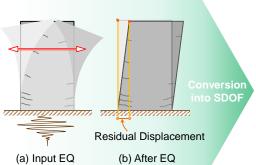
1/4 scaled specimens



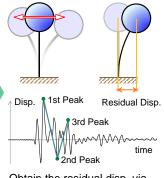
1/4 scaled concrete block



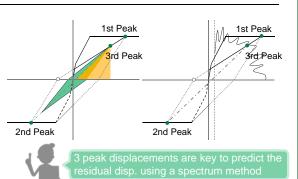
Test Setup



RC building under strong EQ motion



Obtain the residual disp. via non-linear time-history analysis



Residual disp. prediction applying & enhancing the capacity spectrum method