

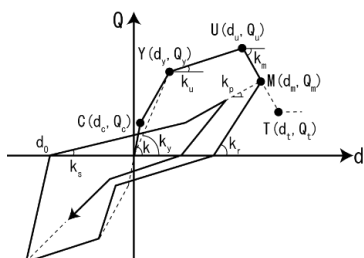
Seismic Performance Evaluation of Existing Wooden Structures

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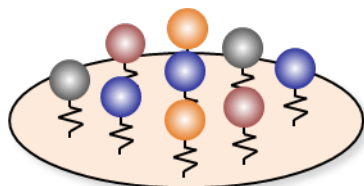
Shaking Table Test
of a Wooden
Structure

Static Test of a
Wooden Structure



Analysis Model
That Can
Reproduce Seismic
Behavior

Wooden House
Cluster Model for
Seismic Damage
Prediction



Content :

Large earthquakes occur frequently in Japan. Therefore, evaluating the seismic performance of wooden structures is important to decrease the people who die due to earthquakes.

Experiment is necessary to evaluate seismic performance. I have conducted shaking table tests and static tests of a wooden structure. I verified the relationship between the ground motions and damage to building with the shaking table tests using different input ground motions. I developed the analysis model that can reproduce seismic behavior with the test result. Now, I'm developing a damage cluster model of existing wooden structures. We can conduct earthquake damage prediction and earthquake damage estimation using the damage cluster model.

Appealing point :

I will actively engage in industry-academia collaboration and contribute to improving the seismic performance of existing wooden structures.

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Research Interest : Wooden Structure

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