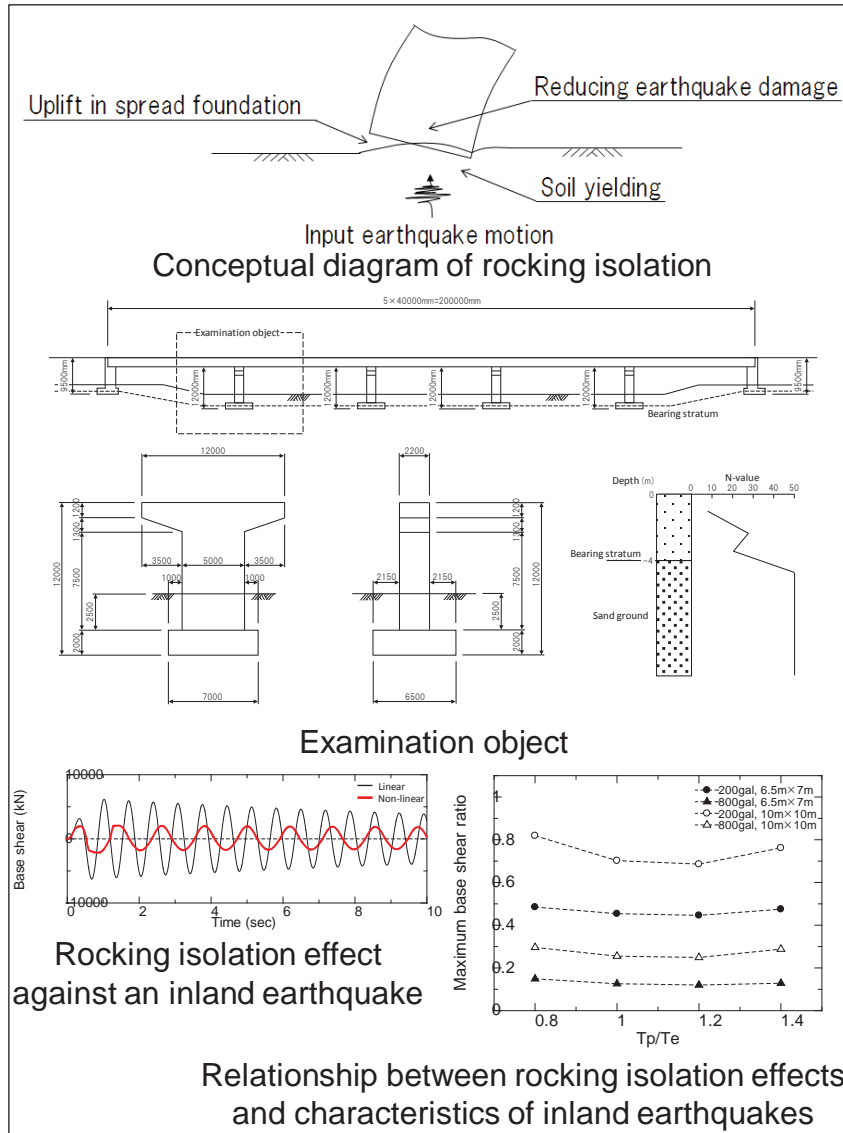


Research on applicability of rocking isolation to highway bridges

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Rocking isolation is technology for reducing earthquake damage of superstructure by accepting uplift in spread foundations. I study applicability of rocking isolation to highway bridges.

I have studied rocking isolation effects from a viewpoint of energetics to clarify the mechanism and effectiveness of rocking isolation against inland earthquakes like 1995 Hyogo-ken Nanbu earthquake which are important events in evaluating seismic performance of structures.

In the future, I will study effectiveness of rocking isolation against Nankai Trough earthquake which is predicted to occur in the near future with high probability and create the prediction equation to use in practice.

The results of the study allow appropriate applications of rocking isolation and they are expected to reduce earthquake damage of highway bridges.

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