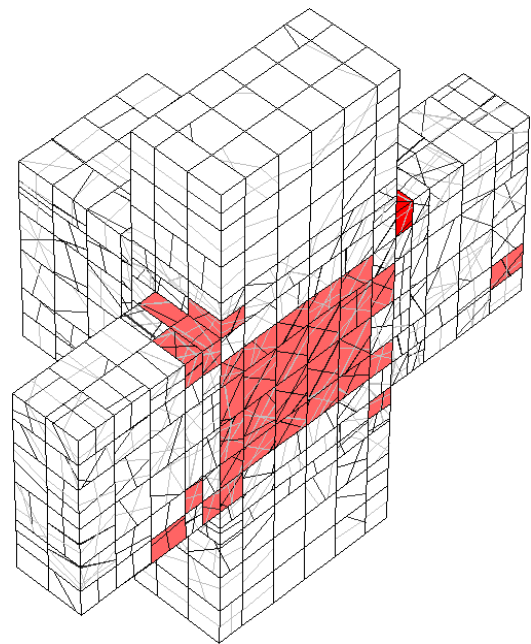


Proposal of structural systems for answering various requirements

Reliable structures can provide people with comfortable urban life. It is required not only safe of occupants in the buildings but also use of the buildings after earthquake disaster in some cases. In order to answer those requirements, it is important to expand the range of choices for structural systems and design methods. Our group conducts experimental and numerical studies of mainly concrete structures aiming for these goals. For example, if a new material like high strength steel bar is adopted, not only behaviors of structural members but also design of detail like bond and anchorage of the deformed bars, should be make clear. On experimental studies, we conduct loading tests of columns, beams, and so on. We also do FEM numerical analysis of concrete structures. Accumulating these works, we propose new structural systems and evaluation methods of structural performance.



Loading test of reinforced concrete column



FE analysis of beam-column joint