

## Site-specific Strong Ground Motion Prediction for Buildings in Nagoya Region : Fault Models of Hypothetical Earthquakes

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Fault models of hypothetical earthquakes were established for strong motion estimation over Nagoya city area. Fault parameters were determined based on seismological, geological, and geographical information around the target area. Heterogeneities on the fault planes were modelled considering main rupture areas. The Hypothetical New Tokai earthquake is an inter-plate great earthquake along the subduction zone of the Phillipine Sea Plate. The Hypothetical Nobi Plain Westside, the Hypothetical Ise Bay, and the Hypothetical Sanage Mountain North earthquakes are all intra-plate earthquakes related to the active faults. The Hypothetical Shallow Nagoya earthquake is practically assumed considering the background seismicity, not related to the known active faults, in the area.