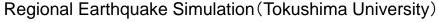
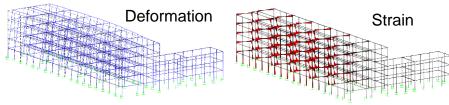


Structural Response Simulation for Earthquake and Tsunami Associate Professor Narutoshi Nakata





3D Detailed Earthquake Simulation (Civil Eng. Building)



Seismometer on a Single-Board Processor



Structural Testing in Hybrid Simulation

Content:

My research activities are directed toward disaster mitigation with a primary focus on development of structural simulation techniques and emergency disaster information system. Currently, I am working on the integration of seismological network and regional earthquake simulation that can provide prompt estimates and assessment of structural conditions after earthquakes and tsunamis.

Ongoing research projects include:

- Development of GIS-based structural modeling techniques that enable modeling of large number of structures and regional earthquake simulation
- Visualization techniques for structural damage and conditions in high-fidelity simulation
- Development of seismological network using single-board processor like raspberry pi
- Hybrid simulation techniques that combine numerical simulation and experimental study

 $Keywords: Earth quake\ Engineering,$

Structural Dynamics

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