Mechanical Vibration I (1)

Department of Mechanical and Control Engineering

Hiroshi Yamaura

Vibration System

Vibration systems and Vibration Technology

- Train
- Vehicle
- Ship
- Building

- Active and/or Semi-active Suspension
 - Active Mass Damper, etc.
- Vibration Suppression
 Vibration Isolation
- Rotating Machine Balancing, Vibrator in Mobile Phone
- Precision Equipment Vibration Isolation Table

Vibration Related Accident

- Collapse of Tacoma Narrows Bridge (1940) FIV
- Bursting of Turbine Rotor (1970) Unbalance Vibration
- Radiological Accident of Monjyu (1995)
- Large Vibration of Millennium Bridge (2000) Resonance
- Overflow from Oil Tank (2003)
 Sloshing

FIV: Flow Induced Vibration