

Human Body Vibrations Short Course

Background

- What are Human Vibrations?
- Types of Vibrations
- Vibration Characteristics
- Vibration Measurements

Vehicle Vibrations

- Sources
- Dynamic Characteristics
- Vehicle Vibration Characteristics
- Vibration Sources in Vehicles

Human Body Response

- Body Natural Frequencies
- Whole Body Vibrations
- Seated-person Vibrations
- Measurement Methods

Vibration Effects on Human Body

- Human Comfort
- Human Fatigue
- Motion Sickness
- Operation Interference
- Vision
- Hearing
- Control
- Command

Reducing Human Vibrations in Vehicles

- Passive technologies
- Active and semi-active technologies