SUMMER 2019 COURSE OFFERING

Damping Strategies for Civil Structures
CEE 598

Topics:
- Review of Structural Dynamics for SDOF and MDOF Systems
- Overview of Concepts of Dynamic Response Mitigation
- Principles of Damper Design
- Metallic Dampers
- Friction Dampers
- Viscoelastic Dampers
- Viscous Fluid Dampers
- Tuned Mass Dampers
- Tuned Liquid Dampers
- Smart Materials
- Case Studies:
  - Bridge Applications
  - Building Applications

This course is designed to give student an in-depth understanding of the more advanced concepts in damping strategies for civil structures. The course will cover the different types of damping systems available, their basic principles, design considerations, structural implementations and experimental studies.

Additionally, this course will be provided the students with bridge and building implementations.

Prerequisite: CEE-472 or equivalent

Offered by
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