MECH 550. VIBRATIONS OF CONTINUOUS SYSTEMS.

Credits: 3

Offered by: Mechanical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

Description

Introduction to continuous systems. Discretization methods. Vibrations of Euler-Bernoulli and Timoshenko beams. Boundary conditions, intermediate supports and penalty method. Strain-displacement relationships for plates/shells. Vibrations of plates and shells. Sloshing and added mass. Effect of geometric imperfections and thermal loads. Introduction to nonlinear dynamics and stability. Introduction to experimental techniques.

- (3-0-6)
- Prerequisite: MECH 315 or MECH 419
- Restriction: Not open to students who have taken MECH 643