C E 421: Matrix Analysis of Structures

Virtual work and virtual displacement methods; introduction to the flexability and displacement matrix methods; stiffness matrices for rod, frame, and slab elements; introduction to structural dynamics and elastic stability; computational tools.

3 Credits

Prerequisites

• C E 311: Structural Analysis

Cross-listed Courses

• M E 421: Structural Analysis

Instruction Type(s)

• Lecture: Lecture for C E 421

Subject Areas

• Civil Engineering, General
• Structural Engineering

Related Areas

• Civil Engineering, General
• Geotechnical and Geoenvironmental Engineering
• Structural Engineering
• Transportation and Highway Engineering
• Water Resources Engineering