

# ME599B Midterm Exam

## Study Topics

### Beams

Nonsymmetrical beam bending

Torsion of irregular hollow sections

Plate Buckling

Critical buckling stress

Plate edge conditions

Means of inhibiting plate buckling

Effective width

### Body Bending Requirements

moment diagram

use of simplified load case for bending tests

Body Bending Internal loads in shear panel / truss model

Use of strain energy to guide design changes

### Body Torsion Requirements

Body Torsion Internal loads in shear panel / truss model