Topics and Chapter Sections Covered for Test 3

Related homework: 6

1 Chapter 8 - Powers Screws and Non-Permanent connections

Sections covered: 8.12

Topics covered:

1. Bolted joints in shear
2. Bearing stress in bolts/parts
3. Average shear stress in bolts
4. Tensile failure of parts
5. Tear out failure of parts
6. Eccentrically loaded joints
7. Primary and secondary shear
8. Design of eccentrically loaded connections

2 Chapter 9 - Welding, Bonding and design of permanent connections

Sections covered: 9.1-9.6

Topics covered:

1. Welded joints and AWS symbols
2. Shear stress in parallel and transversely loaded welded joints
3. Eccentrically loaded welded joints in shear
4. Primary and secondary shear
5. Unit area, polar moment of inertia, shear stress, etc.
6. Design of eccentrically loaded welded joints for weld width
7. Welded joints in bending
8. Treat bending normal stress as a shear stress
9. Unit moment of inertia, bending stress, etc
10. Design of welded joints in bending for weld width