

Design of tension members (13)

- Tension members may consist of standard rolled sections, or combinations such as back to back angles and channels.
- Design procedures are :
- Determine section classification
- Moment capacity
- Effective area of section
- Tension capacity = $P_t = A_e P_y$.
- And unity check : $F/P_t + M_x/M_{cx} + M_y/M_{cy} < 1$.

References

- Structural steel work: Design to Limit state theory 3rd edition: D.Lam, T.C. Ang, S.P. Chiew.
- Structural steel work design to BS 5950, 2nd edition. L.J. Morris, D.R. Plum. Longman books London.

Assessments

- Week 10 Quiz

Week 14 Class project

Week 15 Class revision

- Grading

- Assignments = 15%
- Quiz = 15%
- Examination = 70%
- Total = 100%