

# CIVE 3205

## Problem Set ACPS

### Columns

Feb 26, 2020

N.M. Holtz

Revisions:

- Feb 26/20: new posting.

# 1) Axially loaded columns:

a) An axially loaded column is 6200 mm long and is subjected to a factored load,  $C_f$  of 360 kN. It is laterally braced, with pinned connections, only at its ends.

- i) select an economical W section of Grade 300 steel
- ii) select an economical W section of Grade 350 steel
- iii) Select an economical HSS of Grade 350 steel.