

5. A self supporting chimney is of effective height equal to 28m, having its diameter at top equal to 1.8m. Design the chimney taking a uniform wind pressure intensity of 1.5 kN/m^2 throughout the height. Assume uniform values of permissible tensile and compressive stresses as 120 N/mm^2 and 90 N/mm^2 .
6.
 - a) Write a short note on physical and mechanical properties of aluminium structures.
 - b) How can we calculate the local buckling of compression element in case of aluminium structures? Give description.
7. Explain the following terms of plastic analysis and design :
 - a) Stages of bending of rectangular sections.
 - b) Evaluation of shape factor for all types of Sections.
8. Write stepwise procedure of overhead rectangular tank.

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