Term Paper
Course : Solid Mechanics
Course Code: CE 302

1. a) What is stress and strain? Discuss the stress-strain curve for mi steel.

b) An aluminum rod is rigidly attached between a steel rod and a brass rod as shown in Fig. P-108. Axial loads are applied at the positio indicated. Find the maximum value of P that will not exceed a stress in ste of 140 MPa, in aluminum of 90 MPa, or in brass of 100 MPa. 5

2. a) Discuss different types of loading.

b) Cantilever beam loaded as shown in Fig. Draw SFD and BMD.

3. a) : A simply supported rectangular beam, 2 in wide by 4 in deep, carri a uniformly distributed load of 80 lb/foot its entire length. What is t maximum length of the beam if the flexural stress is limited to 3000 psi? 5

b) A beam made by bolting two C10 × 30 channels back to back, is simp supported at its ends. The beam supports a central concentrated load of 3 kips and a uniformly distributed load of 1200 lb/ft, including the weight the beam. Compute the maximum length of the beam if the flexural stress not to exceed 20 ksi. 5

Designation C10 × 30

b)

For Steel:

$P = C_s P_s$

$\Rightarrow C_s P = 140 \times 5000$

$\Rightarrow P = 700000\ N$

For Brass:

$P = C_b P_b$

$= 100 \times 3000$

$= 300000\ N$

Given,

$C_s = 140\ MPa$

$C_a = 90\ MPa$

$C_B = 100\ MPa$

For Aluminum:

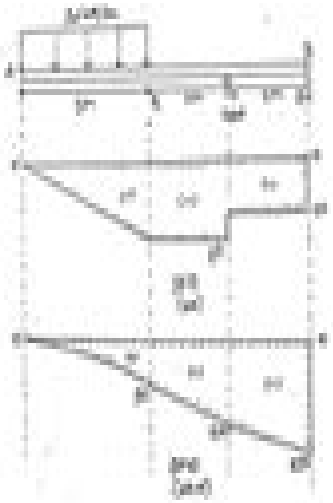
$P = C_a P_a$

$= 90 \times 4000$

$= 360000\ N$

$\therefore$ Maximum value of $P = 300000\ N = 300\ kN$ (Ans)

b)



$R_B = 10 \times 0.4 + 10 = 14\ kN$

SFD (kN)

$10 - 10 \times 1.4 = -4\ kN$

$= -0.4\ kN\ m$

BMD (kN.m)

2. a) Discuss different types of loading.

b) Cantilever beam loaded as shown in Fig. Draw SFD and BMD.

Given, $f_{max} = 3000\ Psi$

Step:

Maximum moment,

$M = \frac{wL^2}{8} = \frac{80 \times L^2}{8} = 10L^2$

Now:

$f_{bend} = \frac{M}{S}$

$\Rightarrow 3000 = \frac{10L^2 \times 12 \times 12}{\frac{2 \times 4^2}{6}}$

$\therefore L = 11.55\ ft$ (Ans)

3. a) : A simply supported rectangular beam, 2 in wide by 4 in deep, carri a uniformly distributed load of 80 lb/foot its entire length. What is t maximum length of the beam if the flexural stress is limited to 3000 psi? 5

b) A beam made by bolting two C10 × 30 channels back to back, is simp supported at its ends. The beam supports a central concentrated load of 3 kips and a uniformly distributed load of 1200 lb/ft, including the weight the beam. Compute the maximum length of the beam if the flexural stress not to exceed 20 ksi. 5

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