

SIMPLIFIED TORSION ANALYSIS FOR STEEL BEAMS

Cantilever Beam with Eccentric Concentrated Load Applied at Free End
For W, S, M, and HP Shapes and Per AISC 9th Edition (ASD) Manual

Job Name:		Subject:	
Job Number:		Originator:	Checker:

Input Data:

Member Size:

Select: **W8x24**

Member Loading:

P = **0.900** kips
e = **12.0000** in.

Design Parameters:

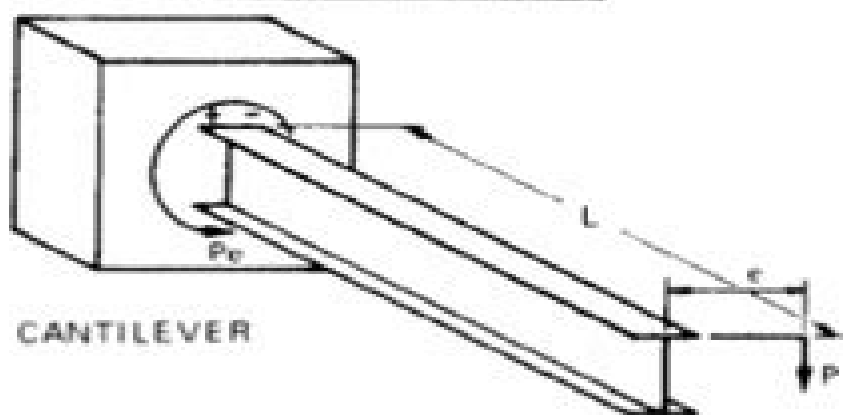
F_y = **36.00** ksi
L = **6.000** ft.
L_b = **12.000** ft.
C_b = **1.00**
ASIF = **1.000**

Member Properties:

A = **7.08** in.²
d = **7.930** in.
t_w = **0.245** in.
b_f = **6.500** in.
t_f = **0.400** in.
r_t = **1.760** in.
d/A_f = **3.05**

I_x = **82.70** in.⁴
S_x = **20.90** in.³
I_y = **18.30** in.⁴
S_y = **5.63** in.³
J = **0.346** in.⁴
C_w = **259.0** in.⁶
wt./ft. = **24** plf

LOAD AND SUPPORT CONDITIONS



Reference for Torsion Analysis:
USS Steel Design Manual (1981)
Chapter 7: Torsion (Figures 7.9 & 7.10)
by: R.L. Brockenbrough & B.G. Johnston

Results:

Manual For Torsional Analysis In Beam

W.F. Chen, J.Y. Richard Liew



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