

# 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**

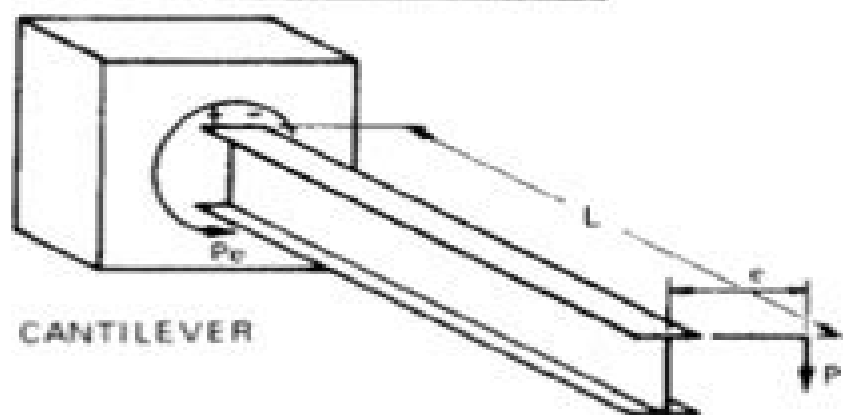
### Member Loading:

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

### Design Parameters:

F<sub>y</sub> = **36.00** ksi  
L = **6.000** ft.  
L<sub>b</sub> = **12.000** ft.  
C<sub>b</sub> = **1.00**  
ASIF = **1.000**

### LOAD AND SUPPORT CONDITIONS



### Member Properties:

A = **7.08** in.<sup>2</sup>  
d = **7.930** in.  
t<sub>w</sub> = **0.245** in.  
b<sub>f</sub> = **6.500** in.  
t<sub>f</sub> = **0.400** in.  
r<sub>t</sub> = **1.760** in.  
d/A<sub>f</sub> = **3.05**

I<sub>x</sub> = **82.70** in.<sup>4</sup>  
S<sub>x</sub> = **20.90** in.<sup>3</sup>  
I<sub>y</sub> = **18.30** in.<sup>4</sup>  
S<sub>y</sub> = **5.63** in.<sup>3</sup>  
J = **0.346** in.<sup>4</sup>  
C<sub>w</sub> = **259.0** in.<sup>6</sup>  
wt./ft. = **24** plf

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

**Jicheng Xie**



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