Steel Interchange

Steel Interchange is an open forum for *Modern Steel Construction* readers to exchange useful and practical professional ideas and information on all phases of steel building and brid[illegible]

[illegible]

1 East Wacker Dr.,
Suite 3100

[illegible]

Answers and/or questions should be typewritten and double [illegible] submittals that have been prepared by word-processin[illegible]

[illegible] es to a particular structure.

Information on ordering AISC publications mentioned in thi[illegible]

[illegible]

[illegible] uestions from pre- vious Steel Intercha[illegible]

[illegible]

[illegible] t the weights of the lifted [illegible] lts will be [illegible]

[illegible]

handling torsional moment, for a simply supported [illegible]

[illegible]

to relatively shor[illegible] members because resu[illegible] overly conservative in case of long spans

Vijay P. Khasat, P.E.
Ohio Edison

[illegible]

[illegible] er common energetic materials used by [illegible] military. [illegible] structure can be subjected to a gas or vapor explosion, du[illegible] such as coal or grain, or, rupture of a pressure vessel, such as a boiler. Each of these incidents have distinctive "pressur[illegible] me" history relationships, which influence the magnitude and duration of the loading and the response [illegible]

[illegible]

follows:

$$f_b = f_{bx} + f_{by} = \frac{M_x}{S_x} + \frac{M_y}{S_y}$$

where M_x is the moment in [illegible]

[illegible]

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different.

- Where does the load originate? Does the explosion come from within the structure, or is it external? If ...the explosion occurs from within, a residual gas pressure, with a duration substantially longer than

duce a satisfactory hole. The heat affected zone bordering the cut has no more adverse affect that does that bordering a weld, and should not be a concern in lug design.

However, pin holes ar

1971 implies a surface hardening because of the flame

etc., a

ed before torsion must be considered?