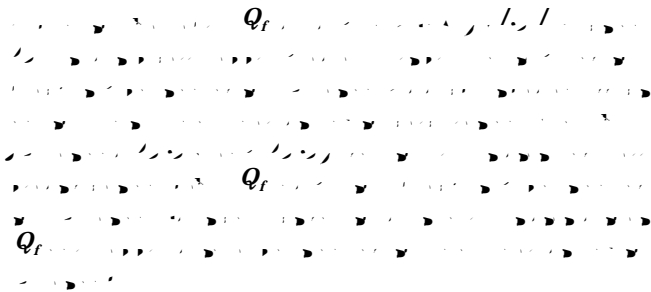


If you've ever asked yourself "why?" about something related to structural steel design or construction, *Modern Steel Construction's* monthly Steel Interchange column is for you! Send your questions or comments to msc@aisc.org.



Application of Q_f



I actually had the same question when I was reviewing this section of the AISC *Specification*. Q_f is in the correct location (inside the brackets) in 2010 AISC *Specification* Equations K1-12 and K1-13. The equation is based on a yield line approach. Because the force in the member has a greater effect on the strength of the yield lines transverse to the chord axis and little effect on the yield lines parallel to it, Q_f is applied to only those portions where it has a significant effect. This

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