

Discussion

Yield Line Analysis of Bolted Hanging Connections

Paper presented by THOMAS S. DRANGER (3rd Quarter, 1977)

Discussion by **Henry W. Dougherty**

The analysis presented by Mr. Dranger is very interesting. As the author states, this type of connection is not used very often for primary members. In such cases, rather than going through the outlined steps that were presented, why not use stiffener plates between flanges at the upper beam connection, thus minimizing (or eliminating) rotation of the lower flange and allowing the suspended load to be transmitted directly into the upper beam web? In the case of the lower beams, as indicated in Fig. 7, again stiffener plates, or bolts long enough to extend to holes in the lower flange, would solve the problem with no doubt as to transmittal directly into the beam web.

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* Steel Designers' Manual U.S. Steel Corporation, May, 1974, pp. 169 and 175.