

Errata

Simplified Approach to AISC Bending Formulas

Paper presented by Frank W. Stockwell, Jr. (3rd. Quarter, 1974)

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Example 1 should be corrected as follows, to conform with the definition of C_b in Section 1.5.1.4.6a of the AISC Specification:

$$C_b = 1.0$$

$$\text{Step 1: } Q = \frac{50(20 \times 12/1.81)^2}{510 \times 10^3 \times 1.0} = 1.72$$

$$\text{Step 2: } Q > 1.0$$

$$\therefore F_b = \frac{50}{3 \times 1.72} = 9.69 \text{ ksi}$$

$$\text{Step 3: } F_b = \frac{12 \times 10^3 \times 1.0}{20 \times 12 \times 5.30} = 9.43 \text{ ksi}$$

$$\text{Step 4: } F_b \text{ for design} = \text{larger value} = 9.69 \text{ ksi}$$

Computer Program for Steel Beam, Girder and Floor Framing Design

In a continuing effort to develop authoritative computer programs that implement the AISC Specification, a program is now available for the analysis, design, and investigation of steel beams, girders and floor framing plans. This new program is based upon the allowable stress provisions of Part 1 of the 1969 AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, including Appendix C, "Slender Compression Elements," Supplement No. 1 effective November 1, 1970 and Supplement No. 2 effective December 8, 1971.

This program was developed by the American Institute of Steel Construction in cooperation with the Committee of Structural Steel Producers and the Committee of Steel Plate Producers of American Iron and Steel Institute.

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