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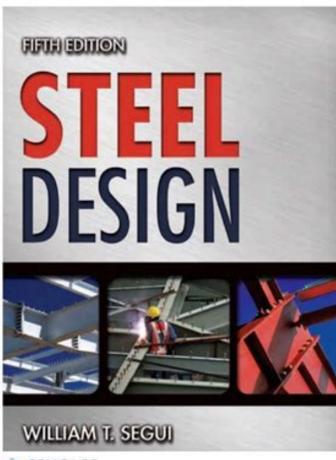
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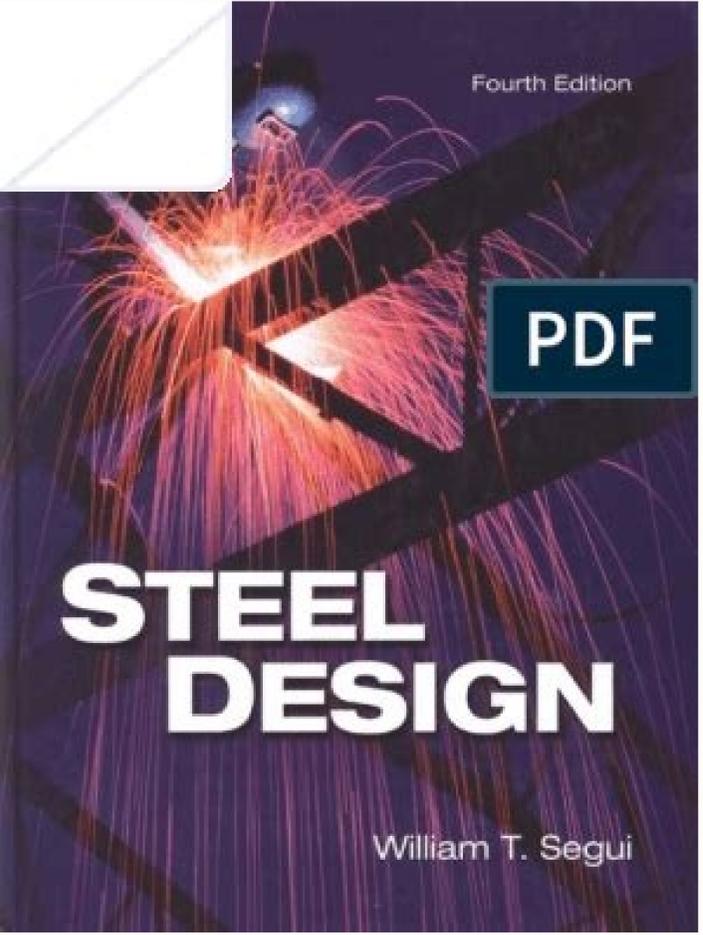
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...in the member when it is braced against sidesway (P-M moments). Figure 8.15 shows the bolt areas and the distribution of bolt tensile forces. Stiffeners will be added in this example. For the usual case of vertical loading, Equation 8.3 will be automatically satisfied. These girders are invariably very deep, resulting in noncompact or compact shapes. When a hot-rolled shape cools after rolling, all elements of the cross section do not cool at the same rate. If bearing stiffeners are needed, they must be designed. The steel is ASTM A242, 2.2 American Institute of Steel Construction Specification 23 AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION Because the emphasis of this book is on the design of structural steel building members and their connections, the Specification of the American Institute of Steel Construction is the design specification of most importance here. The difference is in the proportions: The flanges of the W are wider in relation to the web than are the flanges of the S. FIGURE P3.7-5 3.76-A pipe is supported at 12-foot intervals by a bent, threaded rod, as shown in Figure P3.7-6. 230 Chapter 5 Beams Another approach is to use the allowable stress for compactly supported shapes. The total bolt force can then be found from Equation 7.14. If the net area is treated as the product of a thickness times a net width, and the diameter from Equation 3.2 is used for all holes (since $d = 0$ when the stagger $s = 0$), the net width in a failure line consisting of both staggered and unstaggered holes is $w_n = w_g - \sum d \left[\frac{s^2}{2s} \right] = w_g - \sum d - \frac{1}{2} \sum d^2$ where w_n is the net width and w_g is the gross width. Two such connections are illustrated in Figure 8.24. The HP shape, used for bearing piles, has parallel flange surfaces, approximately the same width and depth, and equal flange and web thicknesses. To avoid a local bending failure of the column flange, the tensile load from the beam flange must not exceed the available strength. For yielding, $M_n = M_p$ (AISC Equation F9-1) where $M_p = F_y Z_x \leq 1.6M_y$ and $F_y Z_x \leq M_y$ for stems in tension for stems in compression (AISC Equation F9-2) (AISC Equation F9-3) where $M_y =$ yield moment $= F_y S_x$. Quality control of welded connections is particularly difficult, because defects below the surface, or even minor flaws at the surface, will escape visual detection. The design of the slab is beyond the scope of this book. For the top chord of the truss shown in Figure P6.9-1, Birmingham, AL, Neglect flexural-torsional buckling and compute the allowable axial compressive strength, Part 10. In combinations with wind or earthquake loads, you should use a direction that produces the worst effects. This behavior takes place FIGURE 4.20 166 Chapter 4 Compression Members FIGURE 4.21 in the double-angle shape when bending about its y-axis. Equation 6.2 is the basis for the AISC formulas for members subject to bending plus axial compressive load. Account for the unbraced length if the formwork does not provide adequate lateral support. In most cases, one or both of the connected parts will have sheared edges, called prepared edges, as shown in Figure 7.35a, although relatively thin material can be grooved welded with no edge preparation. 2.1 Live load = 3.5k/ft² FIGURE P5.15-4 Check the beam shown in Figure P5.15-4 for compliance with the AISC Specification. The purpose of these two documents was to provide an alternative to allowable stress design, much as plastic design is an alternative. In addition to the weight of the beam, the dead load consists of a 41/2-inch-thick reinforced concrete slab (normal-weight concrete). Multiplying this area by the yield stress gives the nominal strength for web yielding at the support: $R_n = F_y t_w(2.5k + b)$ (AISC Equation J10-3) The bearing length b at the support should not be less than k . Solid Circular Bars (AISC F11.1): $M_n = M_p = F_y Z_x \leq 1.6M_y$ (AISC Equation F11-1) (For a circle, $Z_x = 1.7r^3$, so the upper limit always controls.) For flexural members not covered in this summary (single angles, slender shapes, unsymmetrical shapes, and shapes built up from plate elements), refer to Chapter F of the AISC Specification. This requirement can be explained by an examination of the welded connection shown in Figure 7.39a. For 1.6, the ribs oriented perpendicular to the beam, the values are $R_g = 1.0$ for one stud per rib = 0.85 for two studs per rib (as in Figure 9.16) = 0.7 for three or more studs per rib 626 Chapter 9 Connections 16.16 $R_n = 0.75(1.2A_3) = 0.9(1.2A_3) = 1.08(1.2A_3) = 1.30(1.2A_3) = 1.56(1.2A_3) = 1.87(1.2A_3) = 2.24(1.2A_3) = 2.71(1.2A_3) = 3.18(1.2A_3) = 3.65(1.2A_3) = 4.12(1.2A_3) = 4.59(1.2A_3) = 5.06(1.2A_3) = 5.53(1.2A_3) = 6.00(1.2A_3) = 6.47(1.2A_3) = 6.94(1.2A_3) = 7.41(1.2A_3) = 7.88(1.2A_3) = 8.35(1.2A_3) = 8.82(1.2A_3) = 9.29(1.2A_3) = 9.76(1.2A_3) = 10.23(1.2A_3) = 10.70(1.2A_3) = 11.17(1.2A_3) = 11.64(1.2A_3) = 12.11(1.2A_3) = 12.58(1.2A_3) = 13.05(1.2A_3) = 13.52(1.2A_3) = 13.99(1.2A_3) = 14.46(1.2A_3) = 14.93(1.2A_3) = 15.40(1.2A_3) = 15.87(1.2A_3) = 16.34(1.2A_3) = 16.81(1.2A_3) = 17.28(1.2A_3) = 17.75(1.2A_3) = 18.22(1.2A_3) = 18.69(1.2A_3) = 19.16(1.2A_3) = 19.63(1.2A_3) = 20.10(1.2A_3) = 20.57(1.2A_3) = 21.04(1.2A_3) = 21.51(1.2A_3) = 21.98(1.2A_3) = 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- $\frac{A}{71} = (1 \times 3.5) - 1 + 1 = 2.5$ in. 2 > 2.409 in. 2 (8 8) Check the slenderness ratio: $I_{min} = 3.5(1.3) = 0.2917$ in. 4 12 A = 1(3.5) = 3.5 in. 2 From $I = Ar^2$, we obtain $I_{min} = 0.2917 = 0.2887$ in. 2 A 3.5 L 5.75(12) = 239 < 300 Maximum = 0.2887 r min = ANSWER ASD SOLUTION (OK) Use a PL 1 x 3/2. Continue the search and investigate a W12 x 53 (c Pn = 611 kips for KL = 9 ft), Kx L 1.8 = 8 53 ft < 9 ft rx rry 2.11 : K y L controls for this shape, and fe Pn = 611 kips. Compute the nominal strength of the composite section. = 500 lb/ft wL = live load + partition load = 1200 + 100 = 1300 lb/ft wa = wD + wL = 0.500 + 1.300 = 1.800 kips/ft Ma = 1 1 wa L2 = (1.800)(30)/2 = 202.5 ft-kips 8 8 Assume that d = 16 in., #2 = 0.5 in., and estimate the beam weight from Equation 9.6: w = 3.40b Ma (Fy d +- a 2) = 3.4(1.67)(202.5 x 12) 50 (126 + 4.75 - 0.5) = 22.53 lb/ft Try a W16 d 26. It is to be attached to a 3/8-inch gusset plate with 7/8-inch-diameter, Group A bolts. Detroit. Design specifications represent what is considered to be good engineering practice based on the latest research. Both will be illustrated. If the required strength is greater than the available strength corresponding to any of these limit states, column web reinforcement must be provided. These recommendations are summarized in Table 1.2. Other steels can be used for these shapes, but the ones listed in Table 1.2 are the most common (Anderson and Carter, 2009). The bottom number is the live load per foot that will produce a deflection of 1/360 of the span length. The compression flange is restrained against rotation at these same points. 9.1 Introduction 595 FIGURE 9.2 Almost all highway bridges that use steel beams are of composite construction, and composite beams are frequently the most economical alternative in buildings. Design a simply supported beam for the conditions shown in Figure P8.3-9. Try two plates 5/16 x 3 x 0' - 4 1/2". where D is the weld size in sixteenths of an inch. The design strength per inch is 1.392D = 1.392(4) = 4.176 kips/in.

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