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Problem 1005 A timber beam 6 in. by 10 in. is reinforced only at the bottom by a steel plate as shown in Fig. P-1005. Determine the concentrated load that can be applied at the center of a simply supported span 18 ft long if  $n = 20$ ,  $f_s \leq 18$  ksi and  $f_w \leq 1200$  psi. Show that the neutral axis is 7.1 in. below the top and that  $I_{NA} = 1160$  in.<sup>4</sup>.  
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**CHAPTER 3. COMPRESSION MEMBER DESIGN 3.1 INTRODUCTORY CONCEPTS**

Home page of Steel & Timber, a folk group from Calgary. During the summer of 2014, Calgary 's Edworthy Park was a convenient place to jam. What banjo player Nathan H-Thompson and guitarist Ben Rogalsky didn't expect, was for passers-by to take inter

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