

1. A 4x12 S4S Douglas fir beam is loaded and supported as shown in Figure 1.

- Calculate the maximum flexural stress developed in the beam.
- You decide to vary the cross-section of the beam with the three options in Figure 2. Determine which cross-section would have the least flexural stress: (a), (b), or (c).

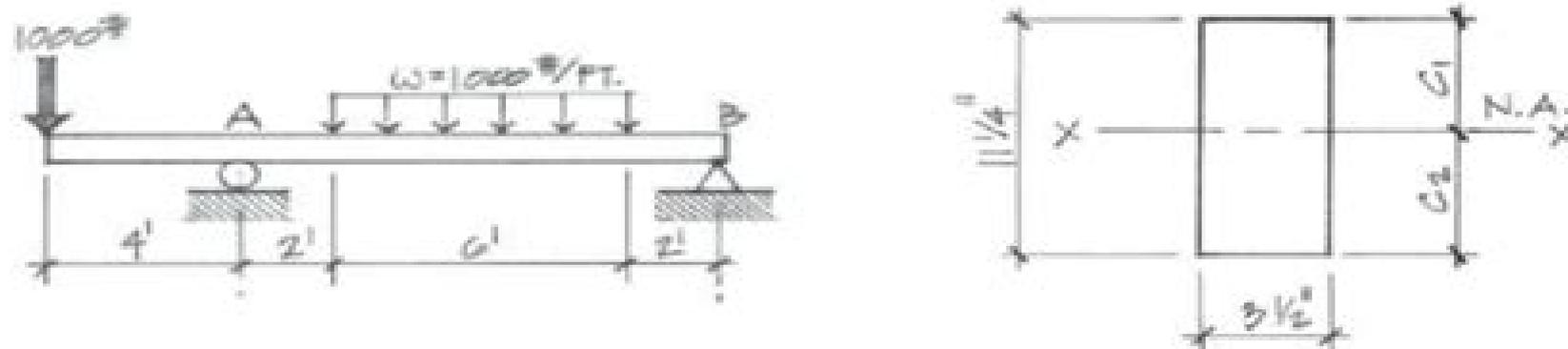
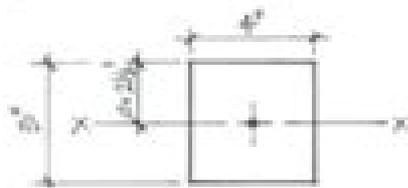


Figure 1: Structure for Problem 1.

(a) Flank:



(b) Rectangular beam:



(c) I-beam:



Figure 2: Structure for Problem 1b.

Structural Engineering Problems And Solutions

Alan Williams

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

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from Stanford University Mr Schuster works in New York City New York for the national engineering firm Simpson Gumpertz Heger Inc where he is involved in the structural design and renovation of steel concrete masonry and wood buildings He has also worked extensively on projects involving the repair and adaptive reuse of historic structures and has investigated several building collapses Simpson Gumpertz Heger SGH is a national engineering firm that designs investigates and rehabilitates structures and building enclosures SGH s award winning work includes building nuclear transportation water wastewater and science defense projects throughout the United States and in more than 30 other countries Also Available for Structural Engineering SE Exam Candidates Structural Engineering Reference Manual Structural Engineering Solved Problems Six Minute Solutions for Structural Engineering SE Exam Morning Breadth Problems Concrete Design for the Civil and Structural PE Exams Steel Design for the Civil and Structural PE Exams Timber Design for the Civil and Structural PE Exams

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