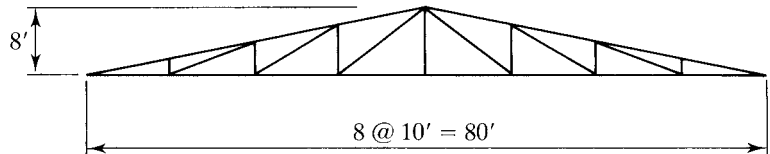
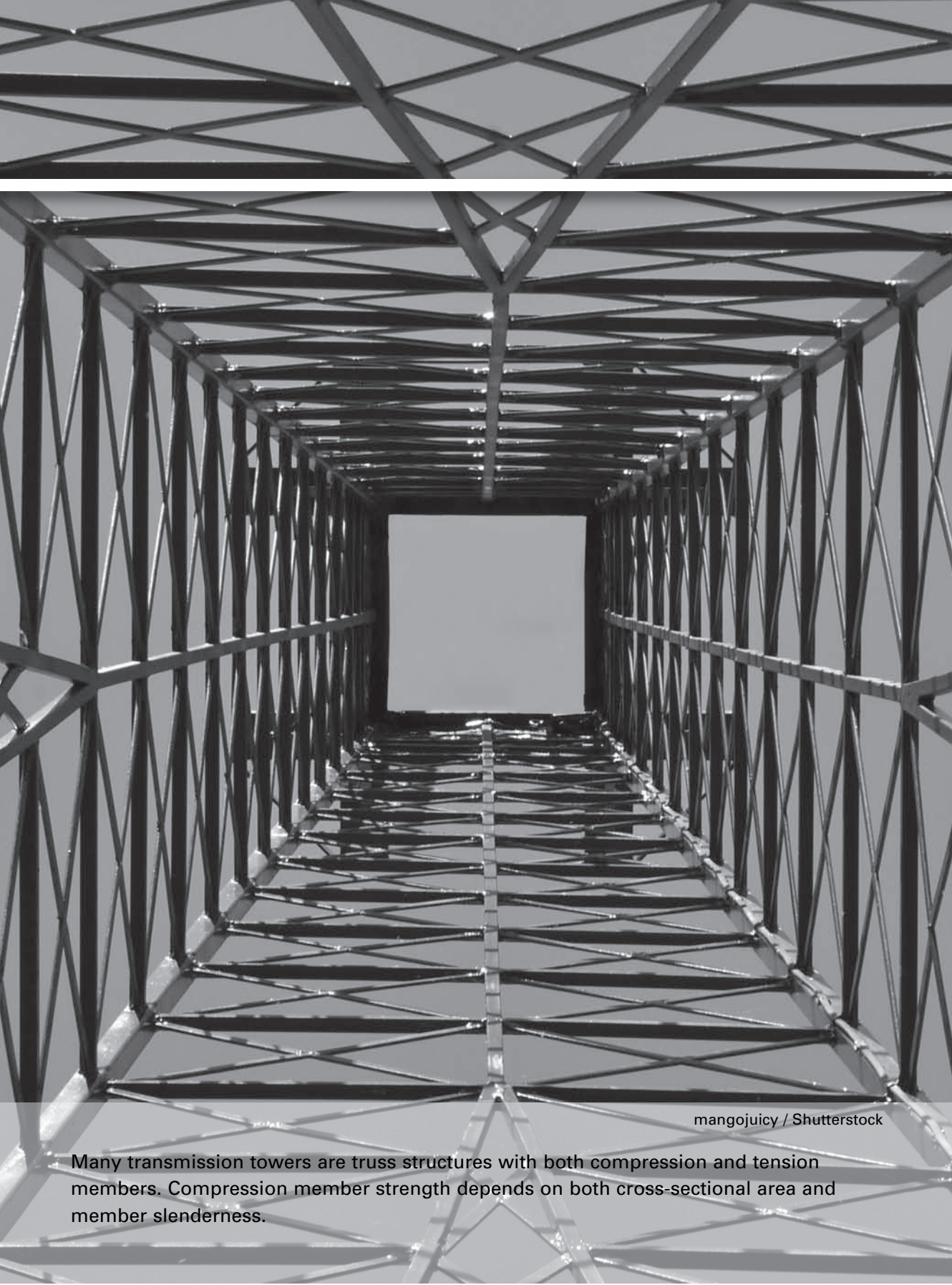


Metal deck:	4 psf of roof surface
Built-up roof:	12 psf of roof surface
Purlins:	3 psf of roof surface (estimated)
Snow:	20 psf of horizontal projection
Truss weight:	5 psf of horizontal projection (estimated)

**FIGURE P3.8-4**

- 3.8-5** Use A36 steel and design sag rods for the truss of Problem 3.8-4. Assume that, once attached, the metal deck will provide lateral support for the purlins; therefore, the sag rods need to be designed for the purlin weight only.
- Use LRFD.
 - Use ASD.



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Many transmission towers are truss structures with both compression and tension members. Compression member strength depends on both cross-sectional area and member slenderness.