

**Homework Exercises for Chapter 8**  
**Solutions**

**EXERCISE 8.1**

From Exercise 8.3: HR and Stress-Hybrid principles coalesce if the assumed axial force satisfies *a priori* the equilibrium equations. This is easier if the body force vanishes, in which case a constant axial force will do.

**EXERCISE 8.2**

From Exercise 8.3: HR and Stress-Hybrid principles coalesce if the assumed bending moment satisfies *a priori* the equilibrium equations. This is easier if the lateral force vanishes, in which case a linear bending moment will do.

**EXERCISE 8.3**

The statement of the Exercise essentially gives all the steps away so there is little point in repeating it.<sup>13</sup>

**EXERCISE 8.4** Not assigned.

**EXERCISE 8.5** Not assigned.

**EXERCISE 8.6** Not assigned.

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<sup>13</sup> Before this assignment there were only five or six people in the world who know this property; now the number has doubled.