

Example 1.1.1b – The same pin-jointed truss structure now carries a horizontal force of 10 kN in joint *E* as shown in Figure 2.

- Calculate the **degree of redundancy** of the structure.
- Determine the magnitude and sense of the **reaction forces** at both supports.
- Determine the magnitude and sense of the **internal forces** in each of the 8 members.

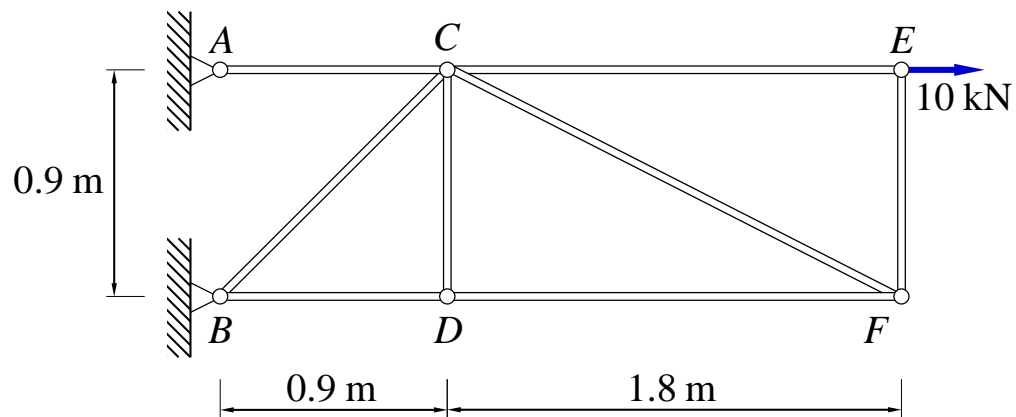


Figure 2: The same pin-jointed truss, but now with a horizontal force at *E*.