

Example 1.1.1a – The pin-jointed truss structure in Figure 1 is subjected to a vertical force of 10 kN in joint F as shown.

- 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.

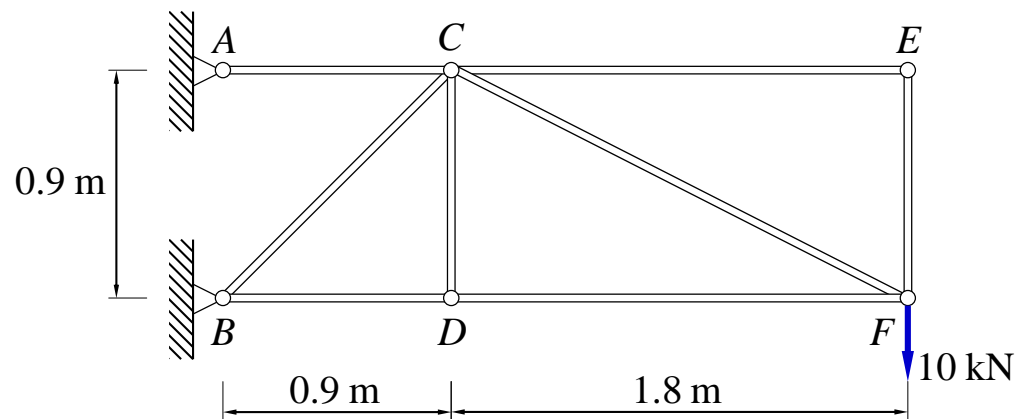


Figure 1: A pin-jointed truss.

