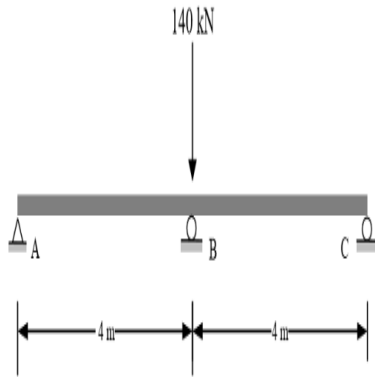


Analysis of statically indeterminate structures (International textbooks in civil engineering)

PROBLEM 5 [25 points]

Using the force method to analyze the statically indeterminate structure shown below, determine the vertical reaction force at point B 1) when there is no settlement at the support B, and 2) when the support B settles by 4.7 mm. EI is constant ($E = 200 \text{ GPa}$ and $I = 450 \times 10^6 \text{ mm}^4$).



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