ANSWERS - VOLUME 1: EQUILIBRIUM

problem 5.12, page 193

Remarks: See §5.1, page 154 till 162

And the examples 3 on page 157

Answers:

1. $N^{(a)}$ follows from horizontal equilibrium, $N^{(c)}$ follows from moment equilibrium about S_{ab} , and so on..

$$N^{(a)} = -40\sqrt{10} \text{ kN}$$

$$N^{(b)} = +60 \text{ kN}$$

$$N^{(c)} = +20 \text{ kN}$$

2. $N^{(a)}$ follows from moment equilibrium about S_{bc} , $N^{(b)}$ follows from horizontal equilibrium, and so on..

$$N^{(a)} = -60 \text{ kN}$$

$$N^{(b)} = -40\sqrt{10} \text{ kN}$$

$$N^{(c)} = +140 \text{ kN}$$

Last update: 27-04-07