

A diagram of a horizontal beam of length 10m, supported at both ends by vertical reaction forces of 2.07 kN. A central point load of 4.14 kN is applied downwards at the midpoint. The beam is divided into two equal segments of 5m each.

| | | | | | |
|---------------|---|---|--------|--------|--------|
| Uá• } ā &@ | ā | ā | -2.10 | -0.06 | 2.06 |
| Ü: ä} ^& * ā | ā | ā | 223.09 | 223.13 | 223.09 |
| Ü: ä} ^& ^ ^ | ā | ā | 223.09 | 223.13 | 223.16 |
| Ü5 } &@ | ä | ä | -0.002 | 0.002 | -0.079 |

| | | | | | |
|-------------|--------|--------|--------|--------|--------|
| Uá• } á ä å | 223.12 | 223.15 | 223.17 | 223.18 | 223.19 |
| Ü: ä } Å | 223.12 | 223.15 | 223.17 | 223.18 | 223.19 |
| Ü: ä } Å | 223.12 | 223.15 | 223.17 | 223.18 | 223.19 |
| Ü5 } ä å | 223.12 | 223.15 | 223.17 | 223.18 | 223.19 |

| | | | | | | |
|----------|---|---|---|---|---|-------|
| Uá• } ã | ã | ã | ã | ã | ã | -2.50 |
| Ü: ä } ^ | ^ | ^ | ^ | ^ | ^ | -0.69 |
| Ü: ä } ^ | ^ | ^ | ^ | ^ | ^ | -1.86 |
| Ü5 } ã | ã | ã | ã | ã | ã | -3.46 |
| Ü5 } ã | ã | ã | ã | ã | ã | -6.00 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Uā• } ā & a | -2.50 | 0.00 | 2.50 | 6.00 |
| Ü: ā) ^ā[* ā | 223.31 | 223.36 | 223.31 | 223.38 |
| Ü: ā) ^ā(^) ^ | 223.30 | 223.35 | 223.43 | 223.45 |
| Ü5 } ā & @ | -0.005 | -0.005 | -0.124 | -0.077 |

| | |
|---------------------|----------------------|
| Uâ* } â & ã | -2.10 |
| Ü: â) ^ â * â | 223.11 223.15 223.11 |
| Ü: â) ^ â ^) ^ * | 223.10 223.12 223.14 |
| Ü5 } â & ã | 0.007 0.029 -0.035 |

| | |
|-----------------------|--------------------------------------|
| Uâ•} â÷ | -2.50 |
| Ü: à) ^÷[* â | 223.18 223.23 223.18 6.00 |
| Ü: à) ^÷^) | 223.12 223.22 223.28 223.25 |
| Û5 } ÷: à) ^ &@ | 0.053 -0.01 -0.104 -0.024 |

[illegible]

| | | |
|-----------------|---------|-------|
| Uá• } ā &ā | ā • ā | -0.96 |
| Ü: ä) ^& * ā | ^ * | -1.25 |
| Ü: ä) ^&(^) ˇ | (^) ˇ | 0.00 |
| Ü5 } && | & • @ | 1.25 |
| | | 2.50 |

A diagram of a horizontal beam supported by two vertical columns. The beam is represented by two parallel horizontal lines. At the center of the beam, there is a downward-pointing arrow labeled $W = 2.0\text{ kN}$. At each end of the beam, where it meets a column, there is an upward-pointing arrow representing a reaction force. The columns are depicted with a zigzag pattern at their bases.

| | | | |
|--------------------|--------|--------|--------|
| Uâ* } â &@ | -2.10 | 0.00 | 2.10 |
| Ü: â) ^ â[* â | 223.10 | 223.14 | 223.10 |
| Ü: â) ^ â[^) ^ * | 223.10 | 223.11 | 223.13 |
| Ü5 } â &@ | 0.000 | 0.030 | -0.024 |


| | |
|------------------|-------|
| Uâ•} â ä | -2.50 |
| Ü: â) ^ â[* â | 0.00 |
| Ü: â) ^ â(^) * | 2.50 |
| Û5 } & @ | 6.00 |

| | | | | | |
|--------------------|--------|--------|--------|--------|--------|
| Uâ~}ã&äÄ•â | -2.50 | | | | |
| Ü: â) ^Ä * â | 223.43 | 223.48 | 223.48 | 223.43 | 223.50 |
| Ü: â) ^Ä ^ ^ ~ | 223.46 | 223.50 | 223.50 | 223.50 | 223.50 |
| Û5 } & ä: â) ^ & @ | -0.062 | -0.021 | -0.071 | -0.003 | |

A diagram of a transmission line with a loss coefficient of $\frac{1}{2} - 20\% - 20\%$. The line is represented by two parallel horizontal lines. At each end, there are three vertical lines representing connections to other components. The loss coefficient is written in the center of the line.

| | |
|-----------------------|--------|
| Uâ~ } â↑ â | -2.50 |
| Ü: â) ^â * â | 23.25 |
| Ü: â) ^â ^) | 23.30 |
| Ü5 } â↑ â) ^&@ | -0.083 |

| | | | | |
|---------|---|---|---|---------|
| Uá•}ã&ã | ã | ã | ã | -2.50 |
| Ü: à)^(| ã | ã | ã | -223.25 |
| Ü: à)^(| ã | ã | ã | -223.30 |
| Ü5 }ã&ã | ã | ã | ã | -0.014 |
| Ü5 }ã&ã | ã | ã | ã | -0.0001 |
| Ü5 }ã&ã | ã | ã | ã | -0.004 |

| | | | |
|---|--|--------------------|----------------|
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