## Chapter 7, Section 4: Cables



## Cables



Assume:

- Weight is negligible
- Perfectly flexible
- Inextensible


## Cable subjected to concentrated loads




Determine the tension in each segment of the cable shown.

## Cable subjected to a distributed load




Determine the
maximum force developed in the cable and the cable's required length. The span length and sag are known.

## Cable subjected to its own weight




Determine the resultant horizontal and vertical forces the cables exert on tower BD.

