Analysis of Structures (Frames)
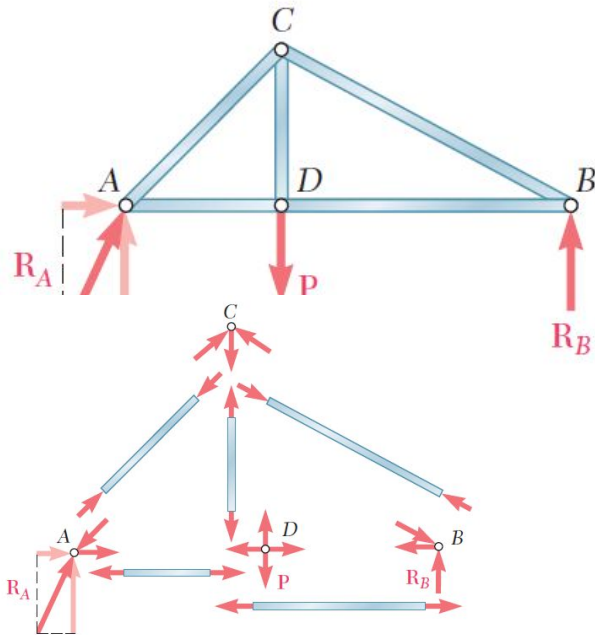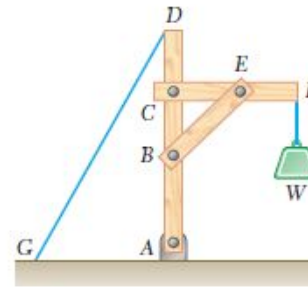
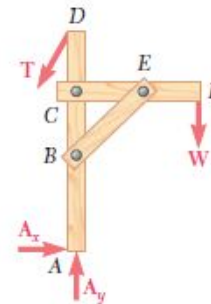Vector Mechanics-Chapter 6

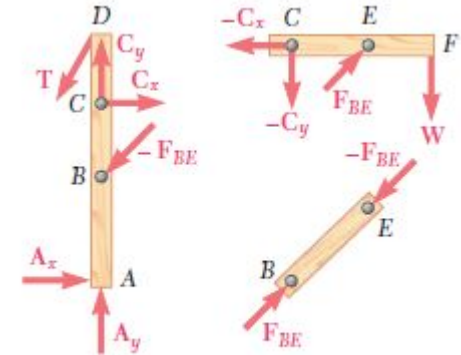# Part - 3: Frames

Truss and Frames

Two force members

Multi force members
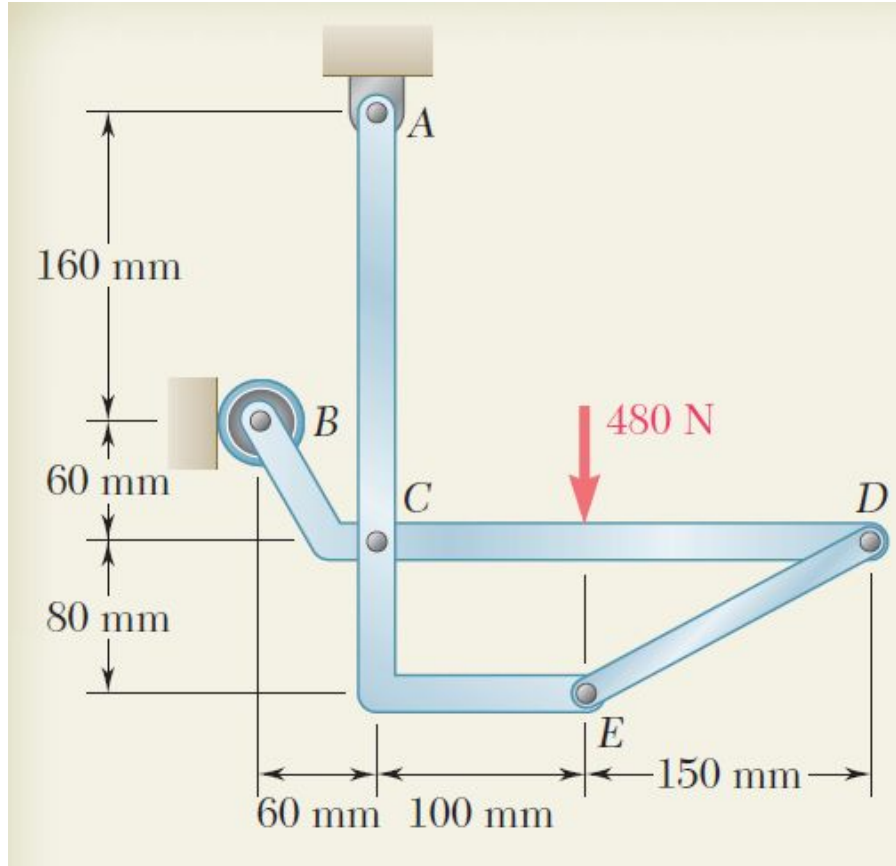

$$\Sigma \mathbf{F} = 0$$
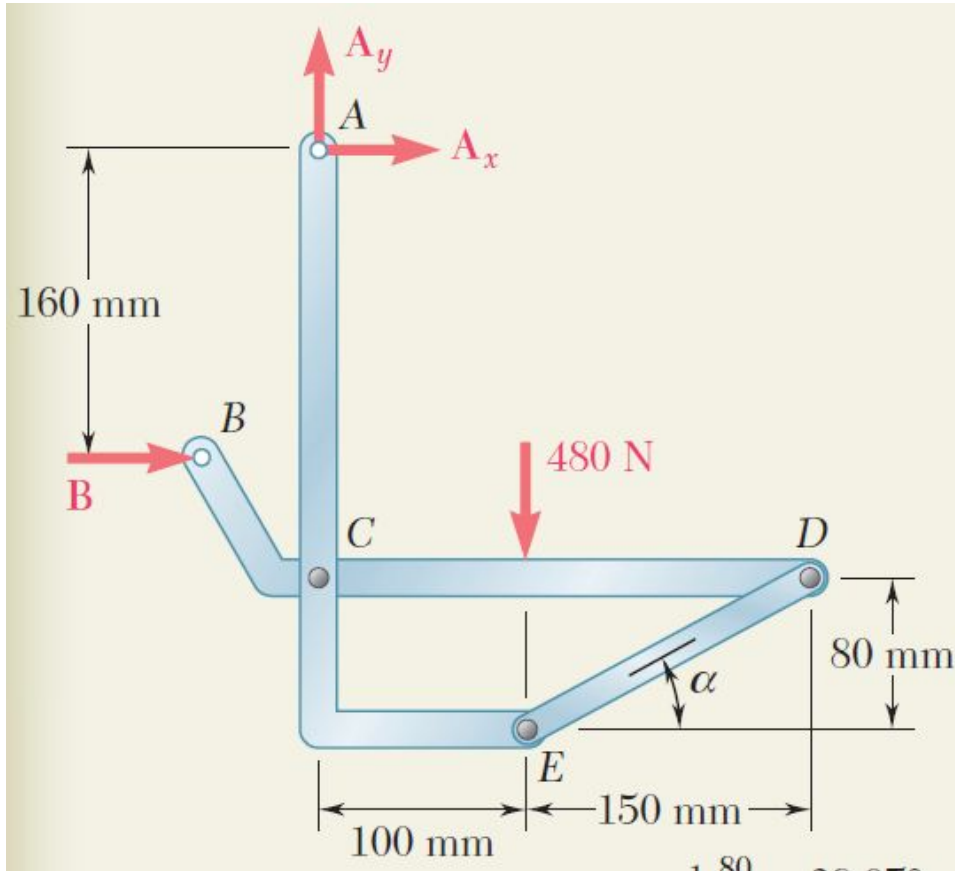$$\Sigma \mathbf{M} = 0$$

Illustration through example

Members ACE and BCD are connected by a pin at C and by the link DE.
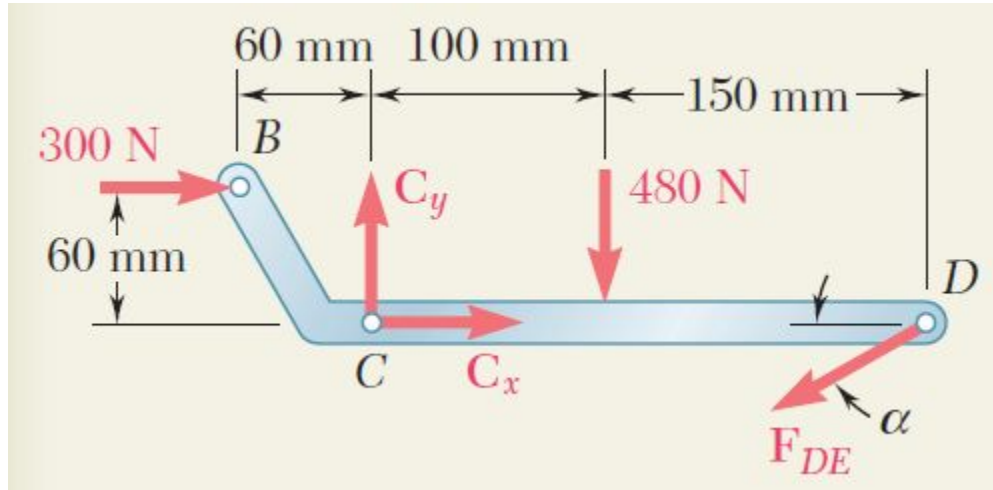
Determine:
1) the force in link DE
2) the components of the force exerted at C on member BCD.
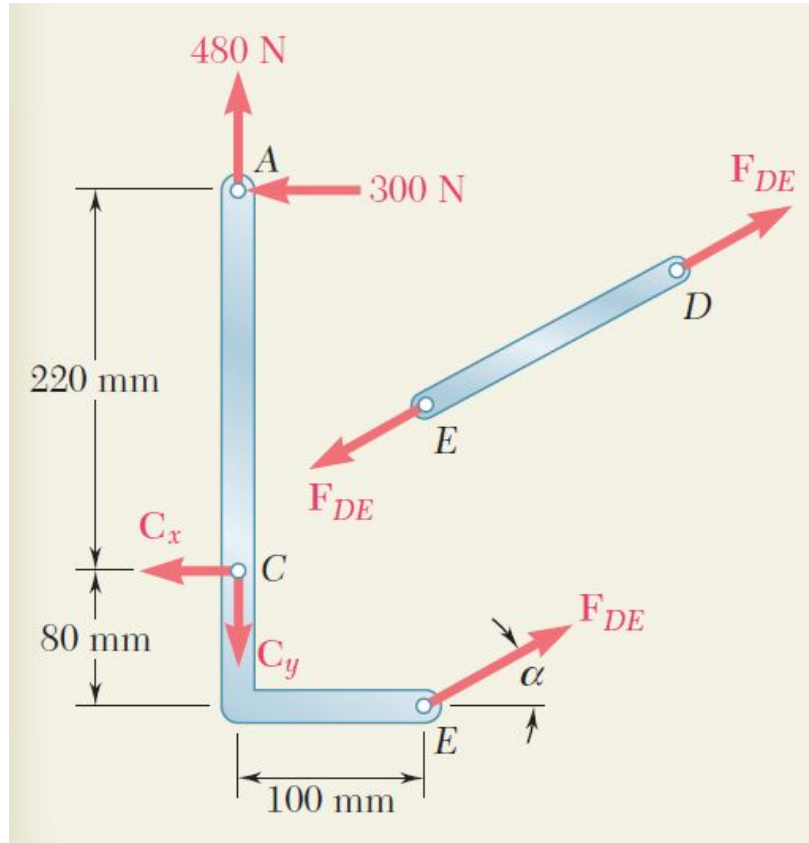
Illustration through example

$$\Sigma\mathbf{F} = 0$$
$$\Sigma\mathbf{M} = 0$$

Analysis through example

Analysis through example

Design analysis of a simple frame is demonstrated