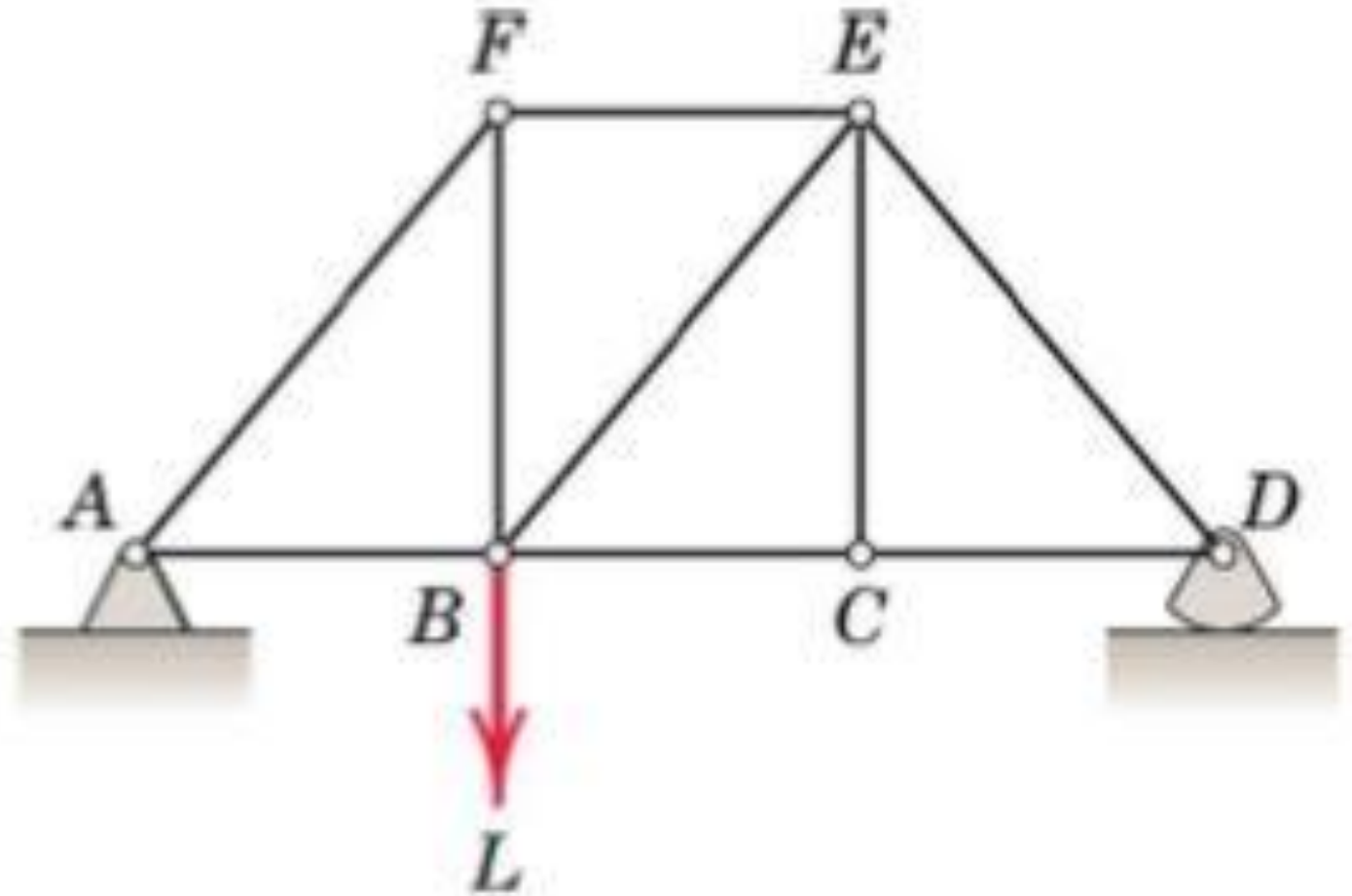


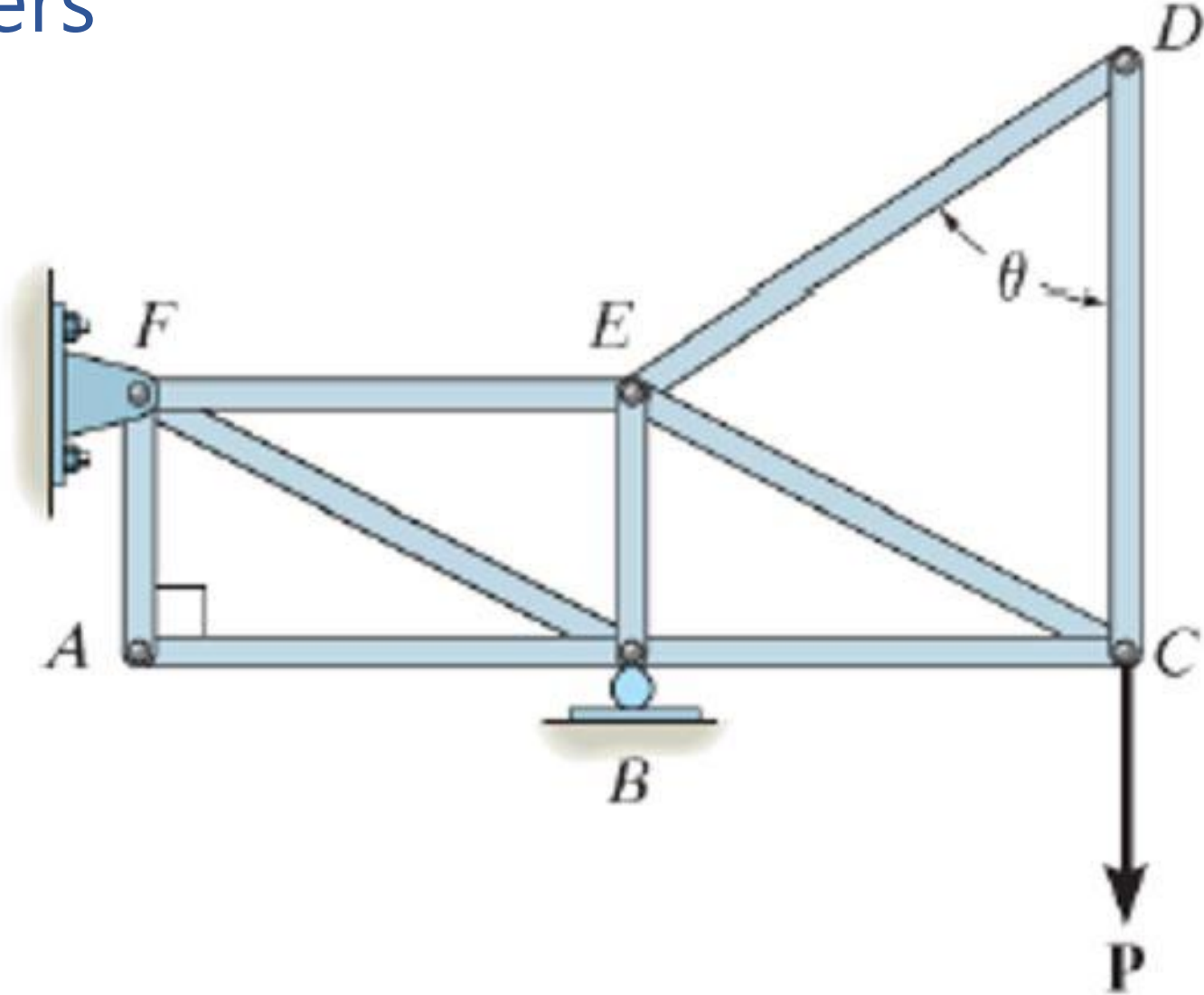
Zero-force members

Problem #1



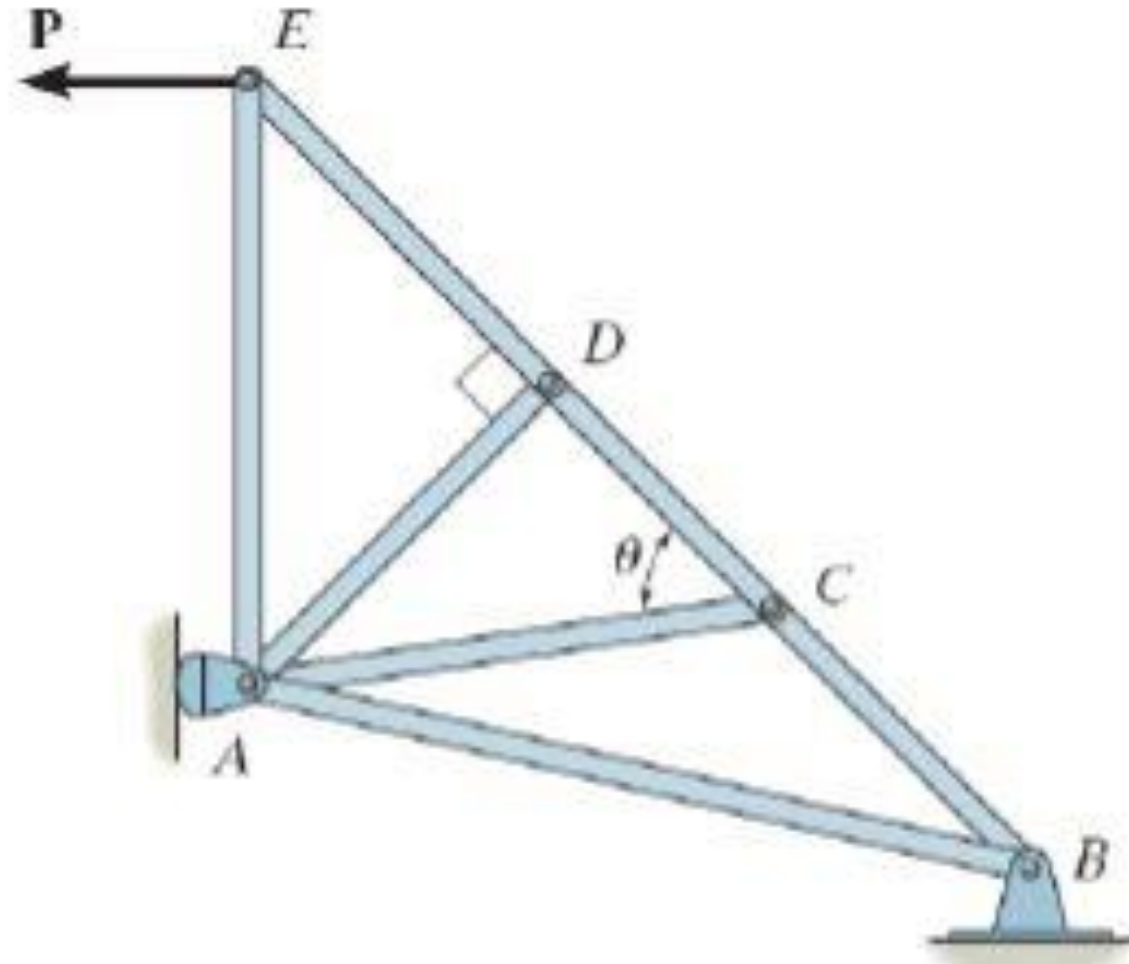
Zero-force members

Problem #2



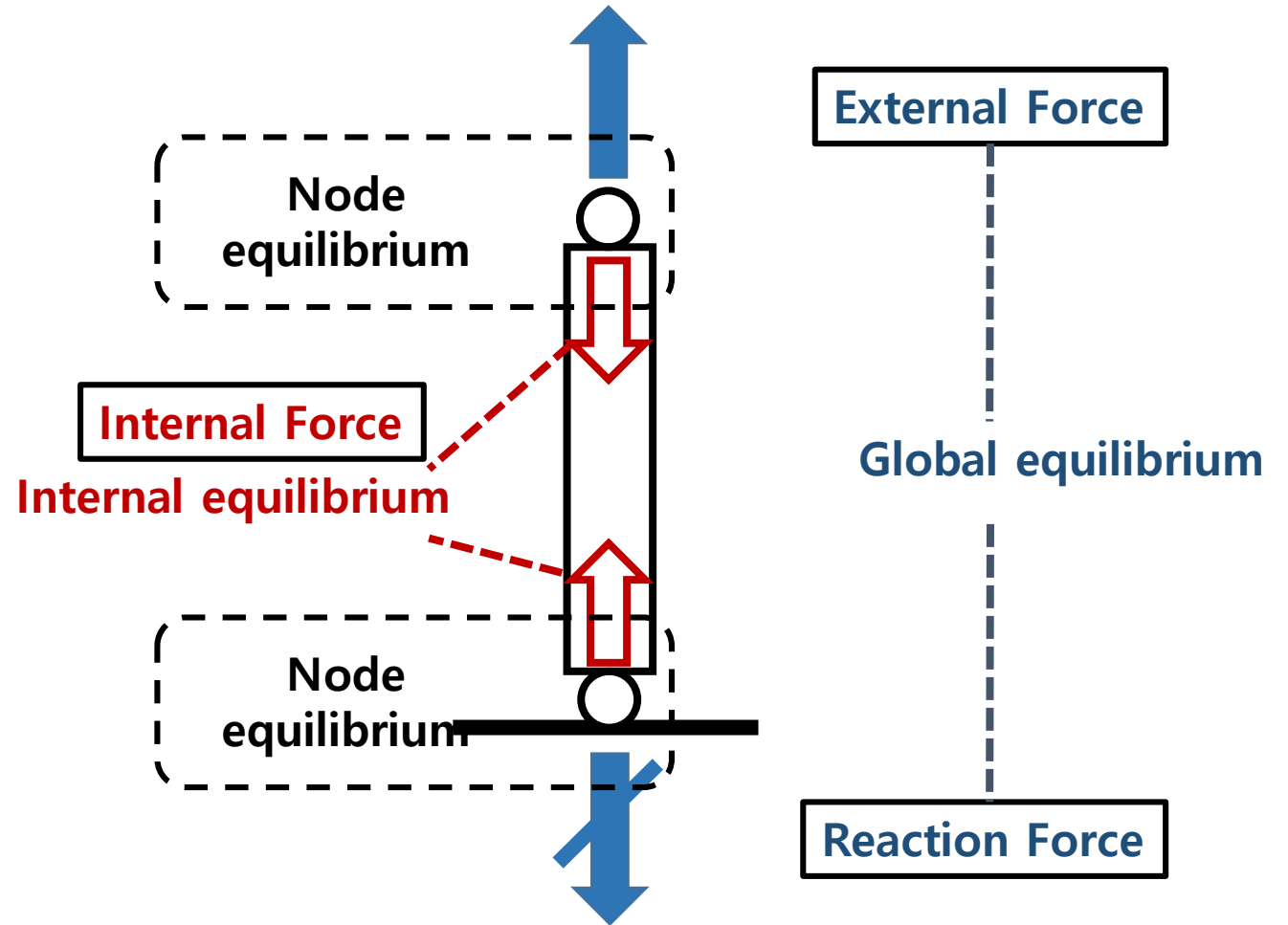
Zero-force members

Problem #3



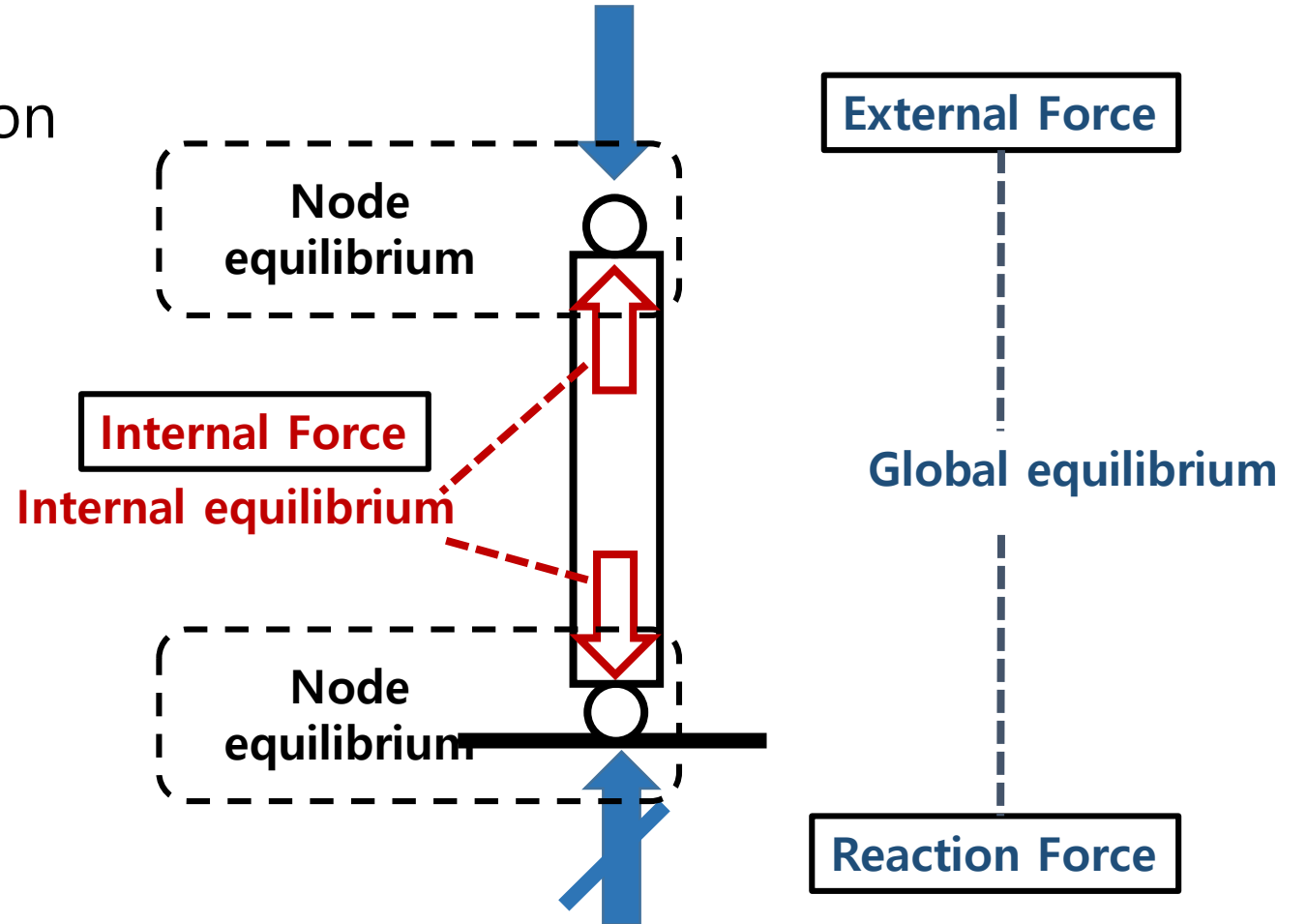
Statics Notation

Prismatic bar under tension



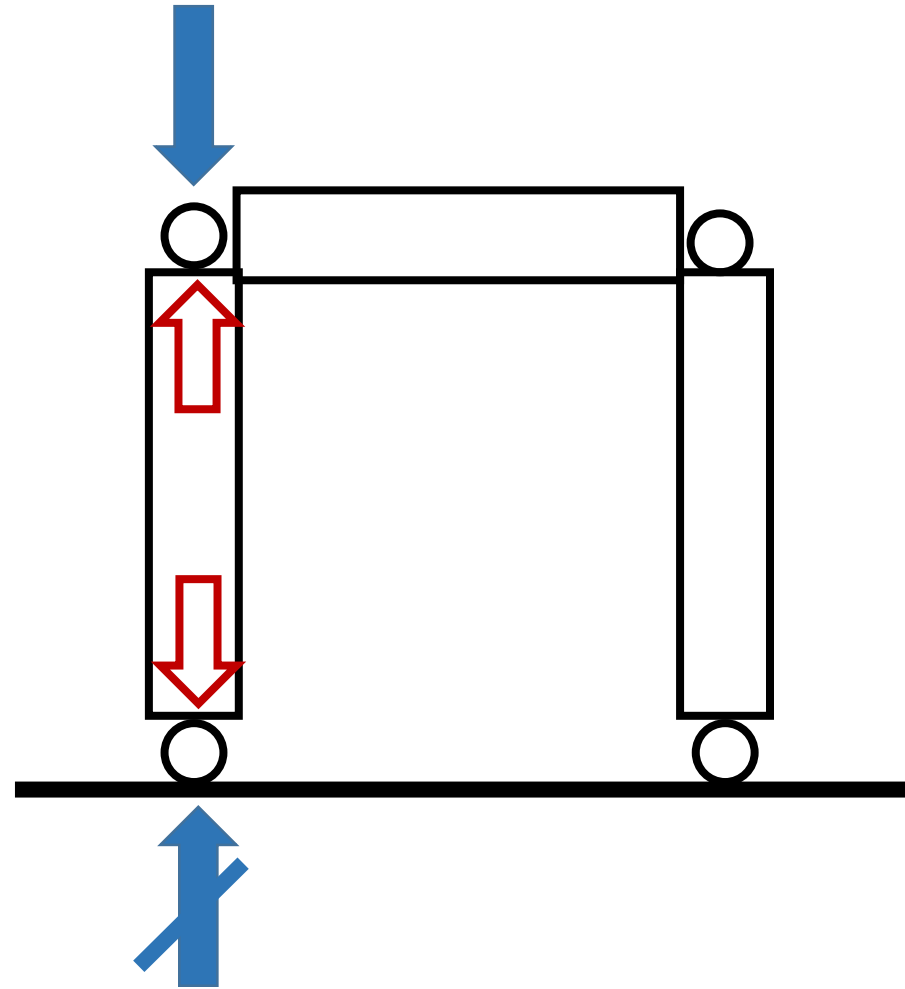
Statics Notation

Prismatic bar under compression



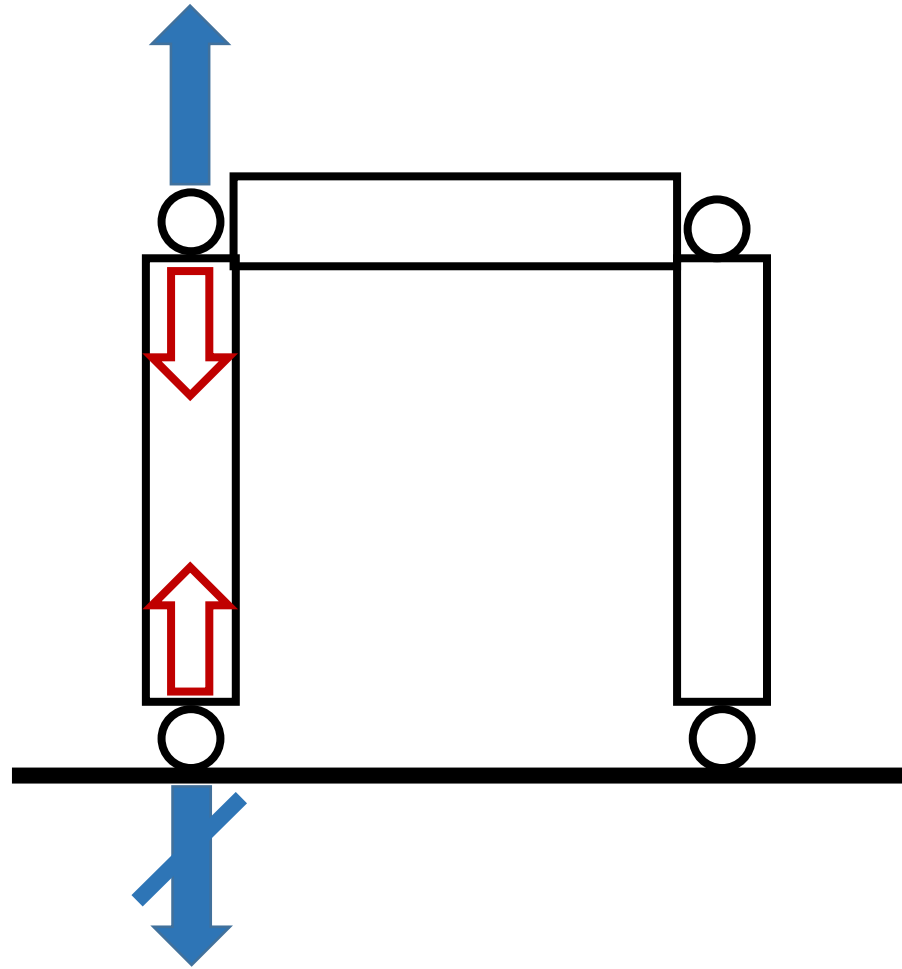
Statics Notation

Truss system under compression



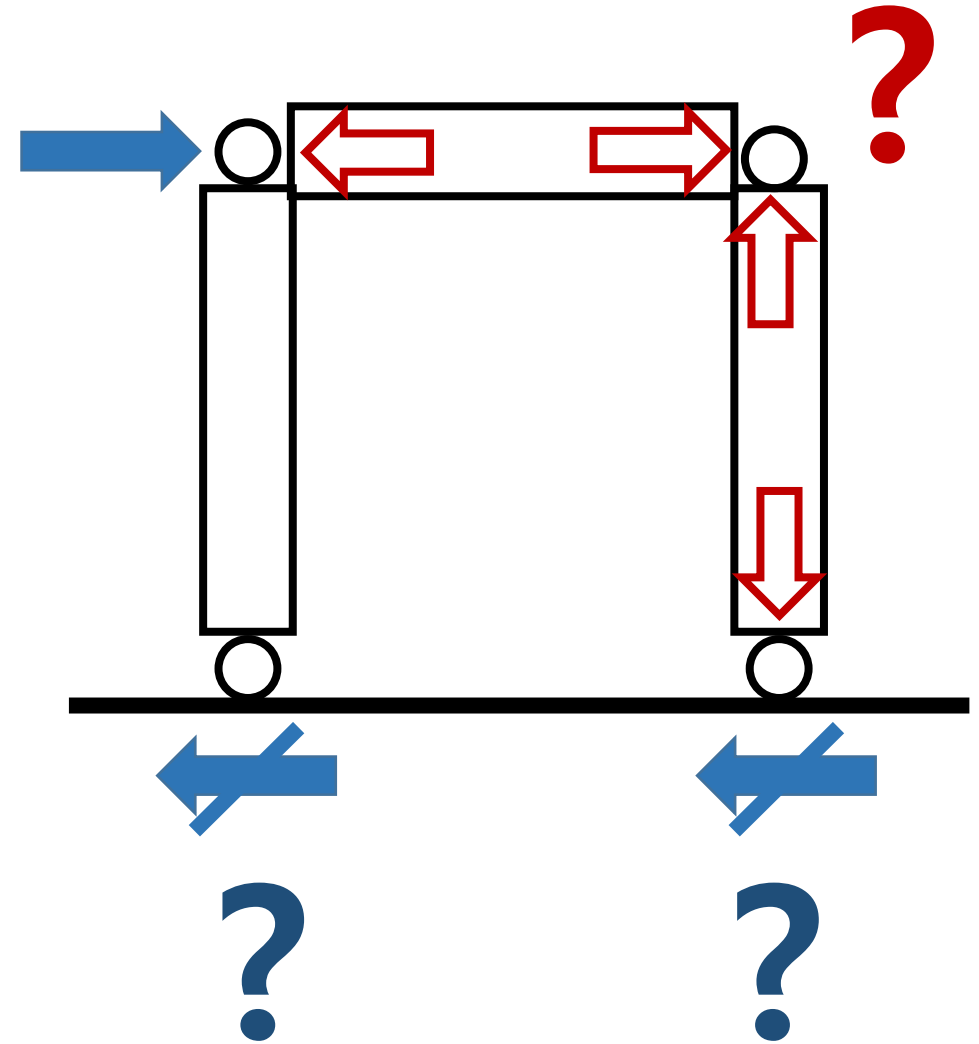
Statics Notation

Truss system under tension



Statics Notation

Truss system under horizontal force



-> **Will collapse!**

How about with hinge with an additional member?

Truss system under horizontal force

Global equilibrium

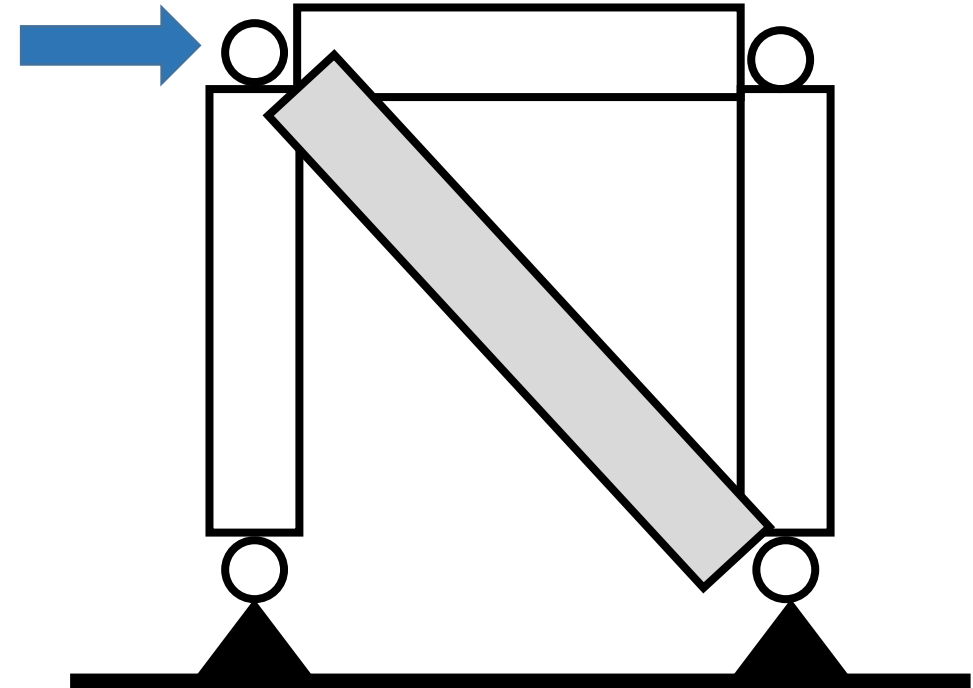
External Force

Reaction Force

Internal equilibrium

Internal Force

Node equilibrium



How about with hinge with an additional member?

Truss system under horizontal force

Global equilibrium

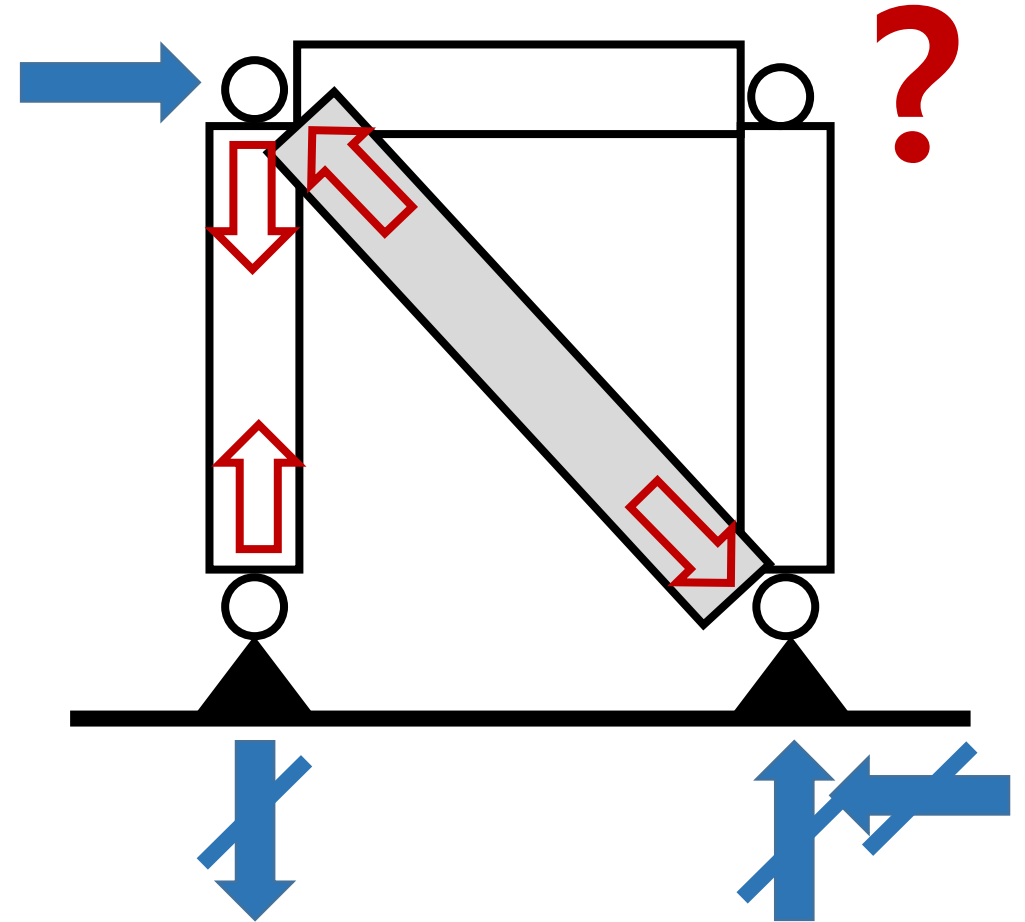
External Force

Reaction Force

Internal equilibrium

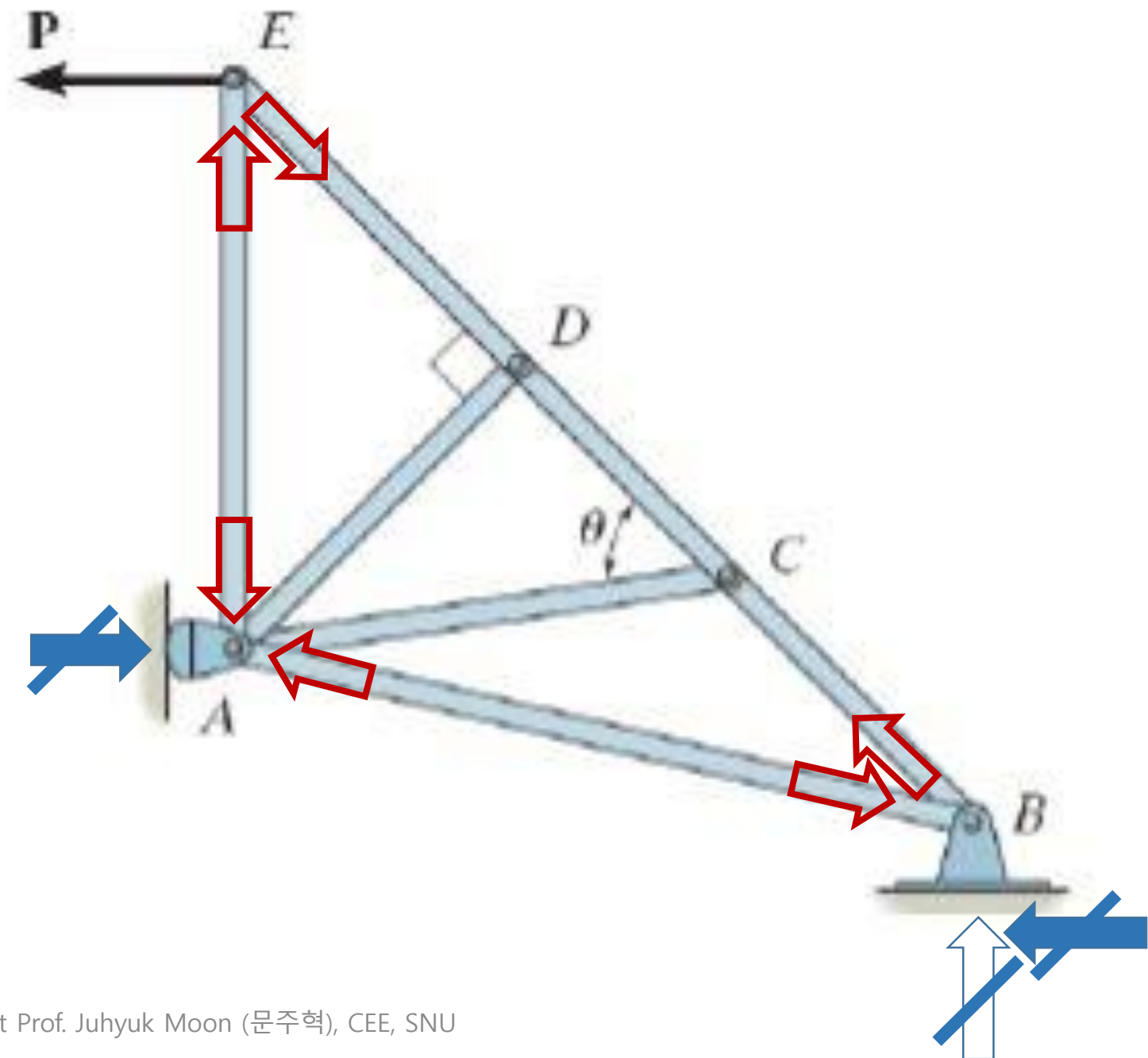
Internal Force

Node equilibrium



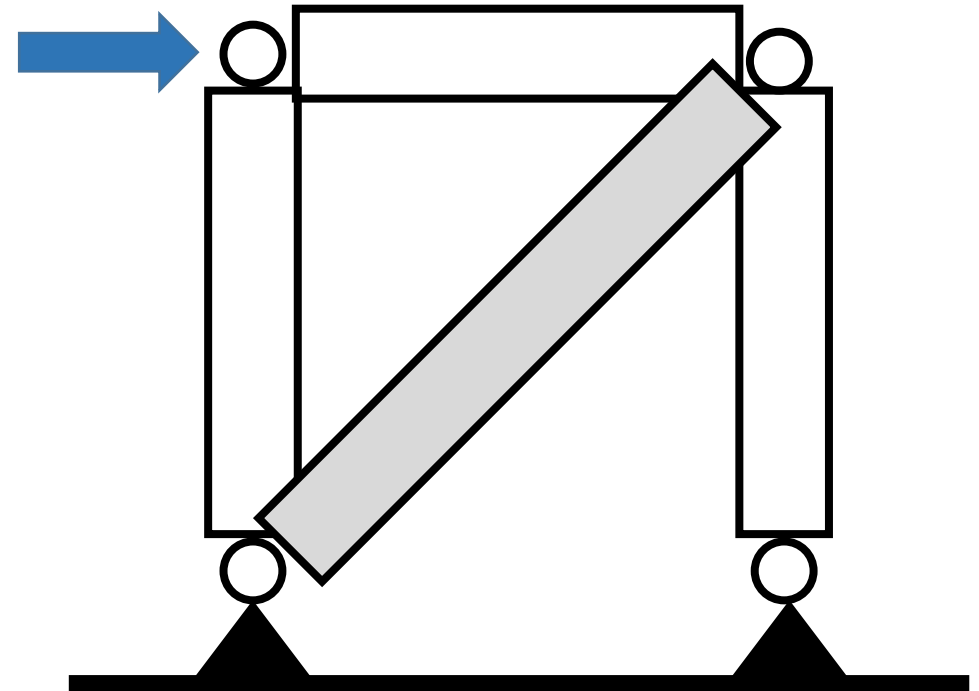
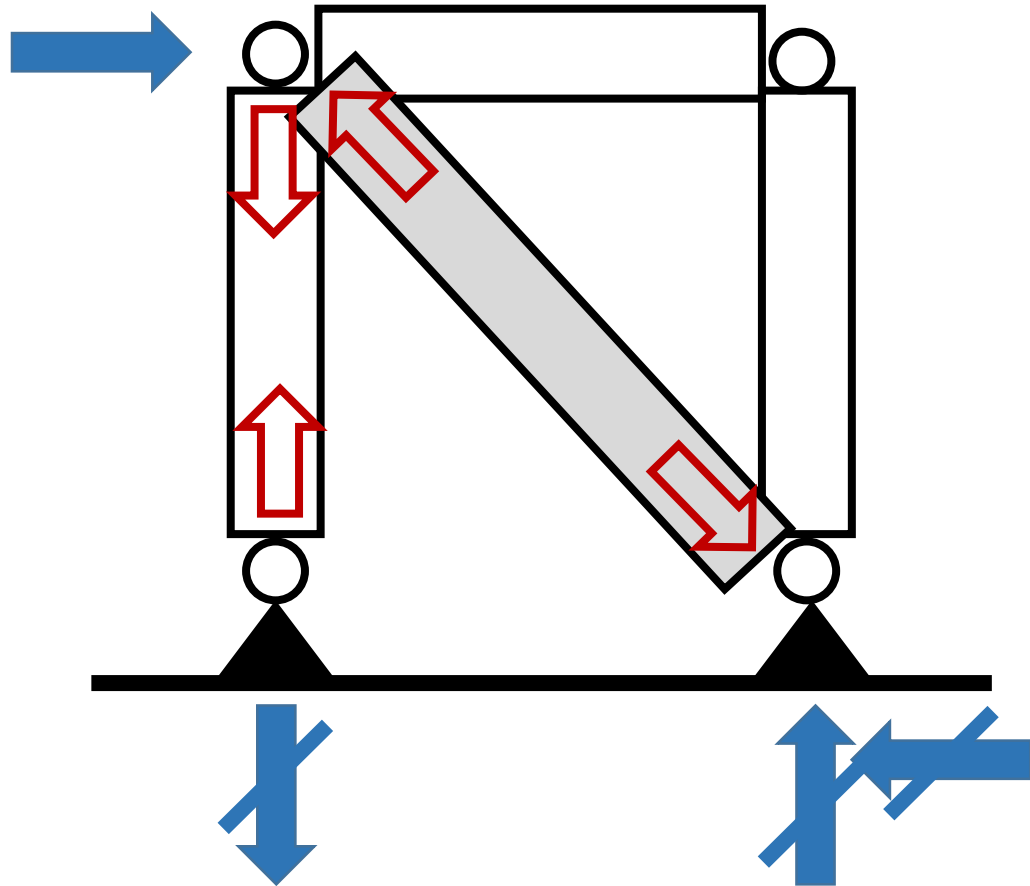
Zero-force member

Problem #3



Kahoot quiz #1 and #2

Truss system under horizontal force



Kahoot quiz #3 and #4

Truss system under horizontal force

