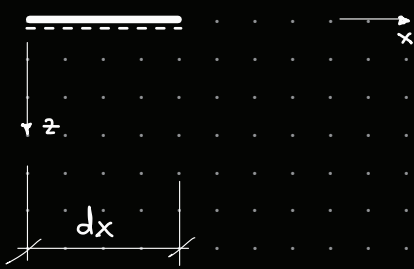
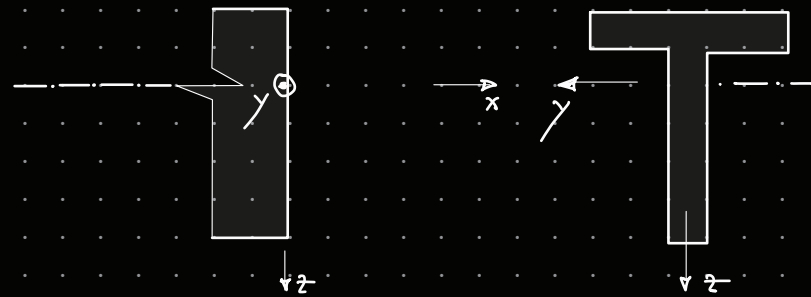


Linear members - Basics

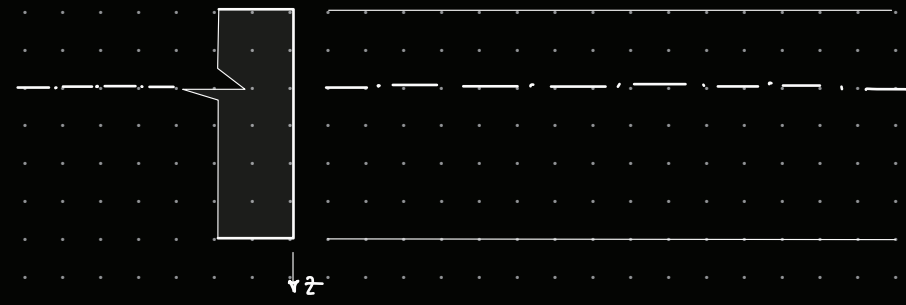
Equilibrium



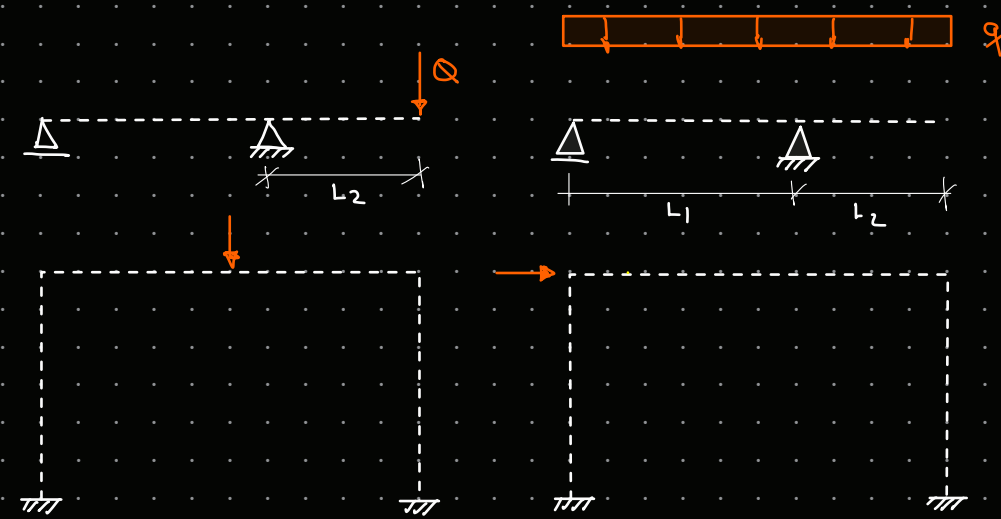
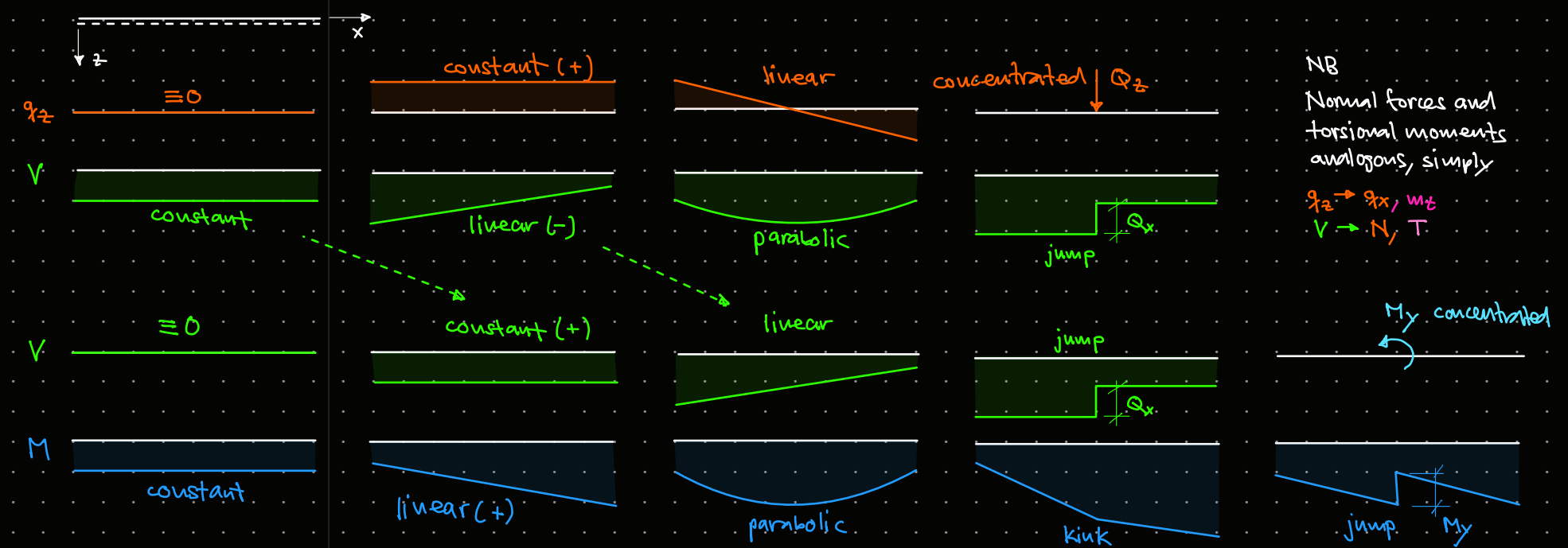
Stress resultants = internal actions (uniaxial bending)
(spannungsergebnisse = Schnittkräfte)



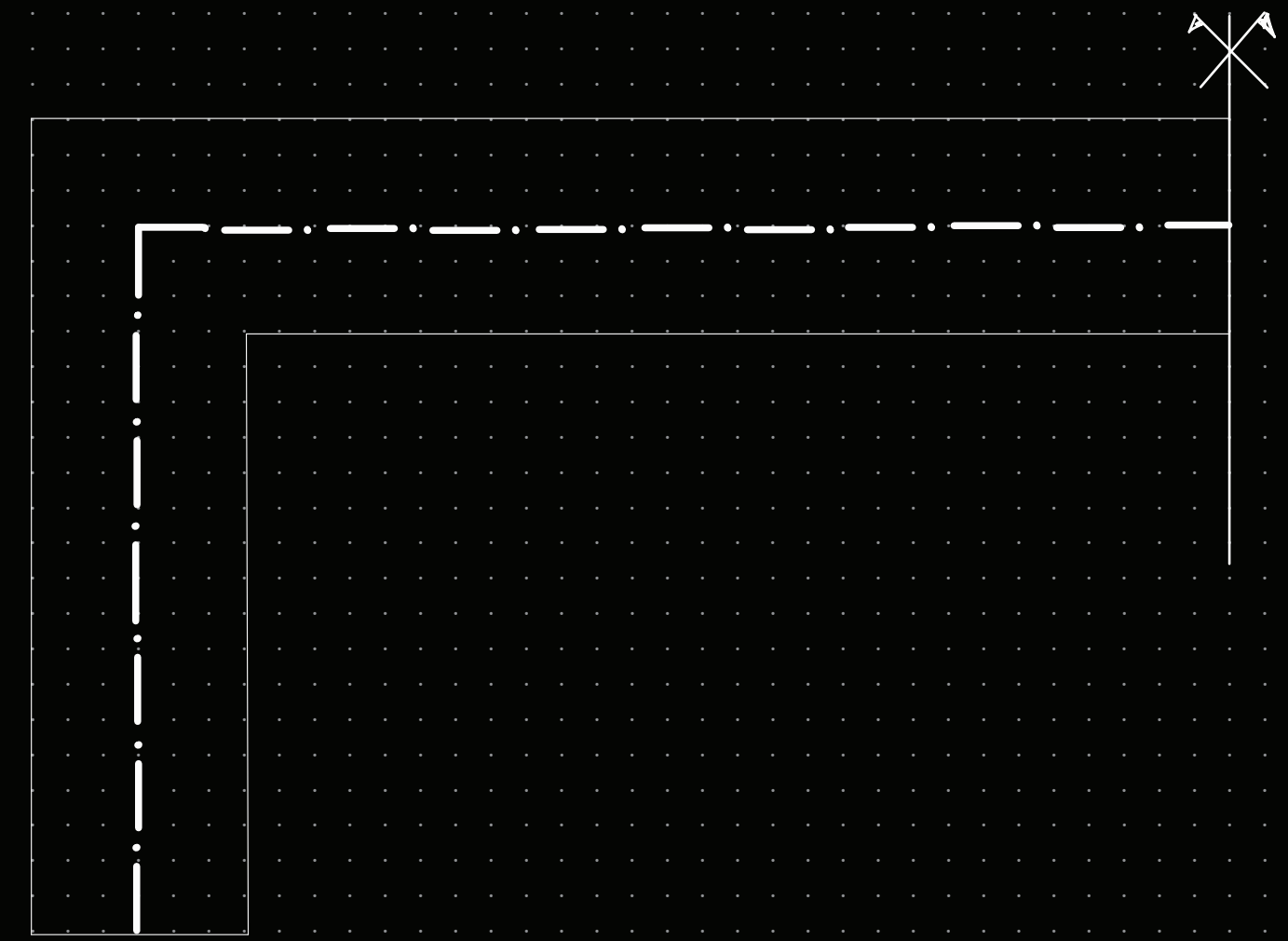
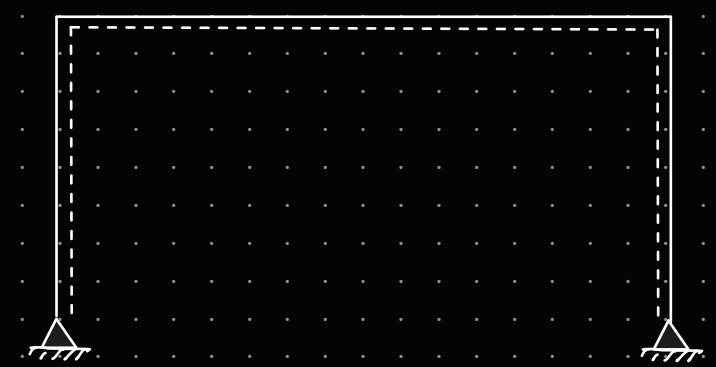
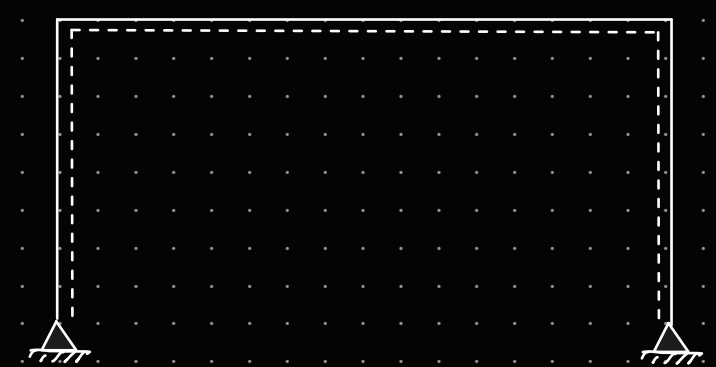
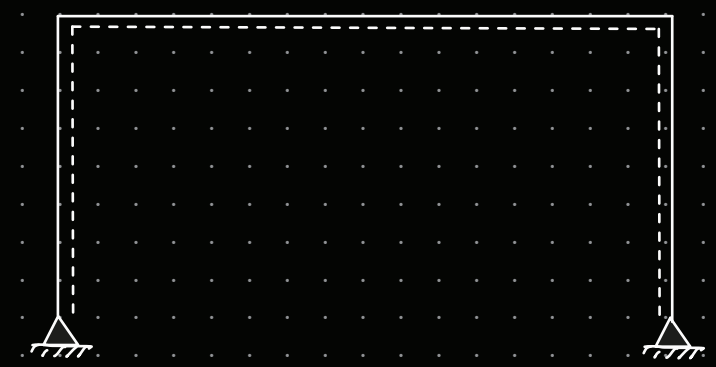
Kinematic restriction



Material characteristics



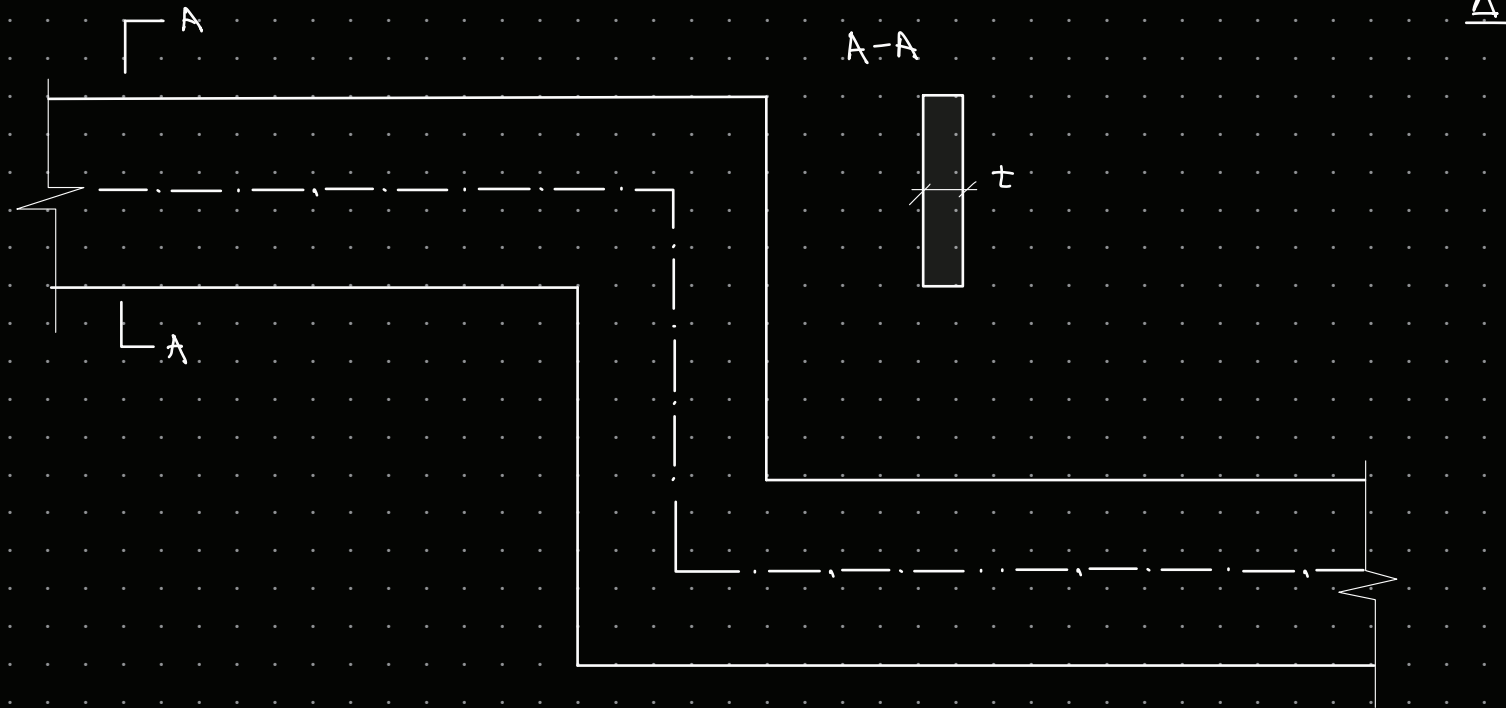
Stress fields - Introduction



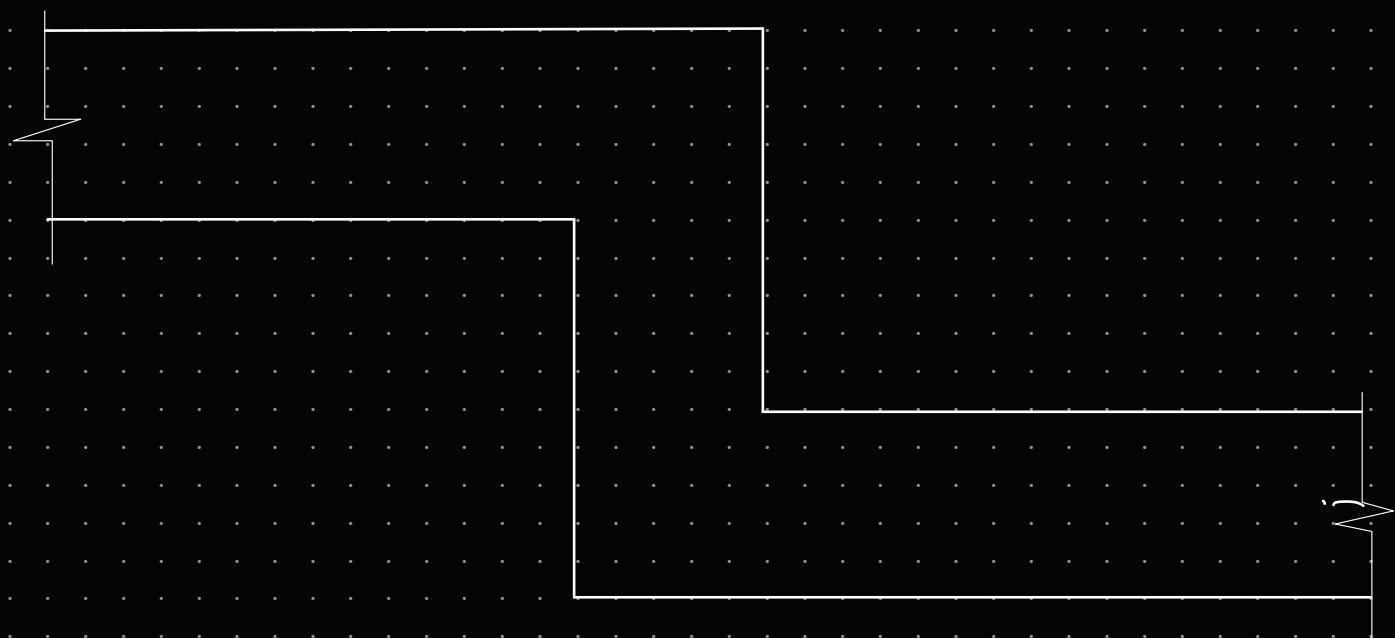
Truss models and stress fields

"simply supported girder"

Geometry + loads (static boundary conditions)

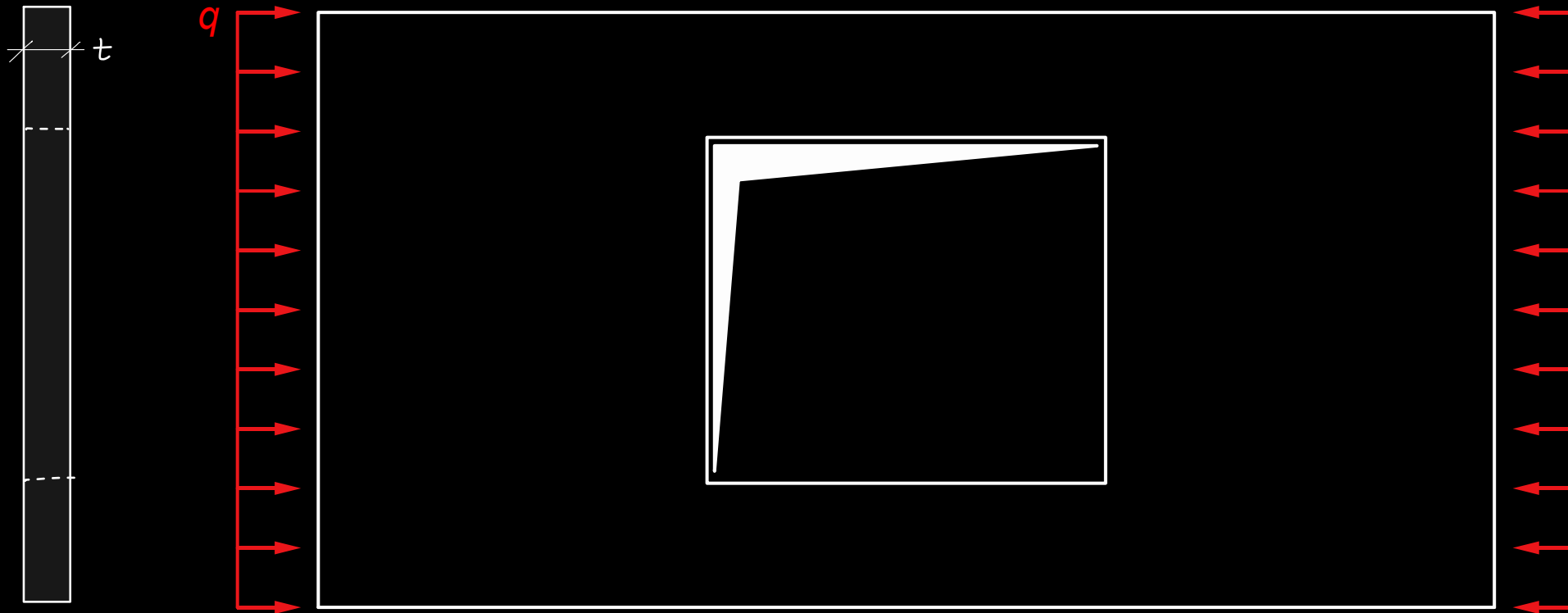


Truss model ("Stabwerkmodell")



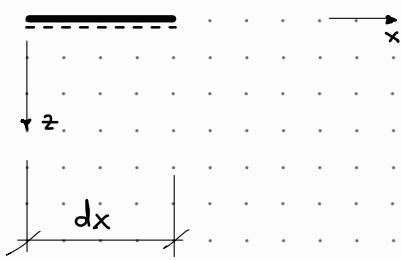
Stress fields – Basics

In-class exercise

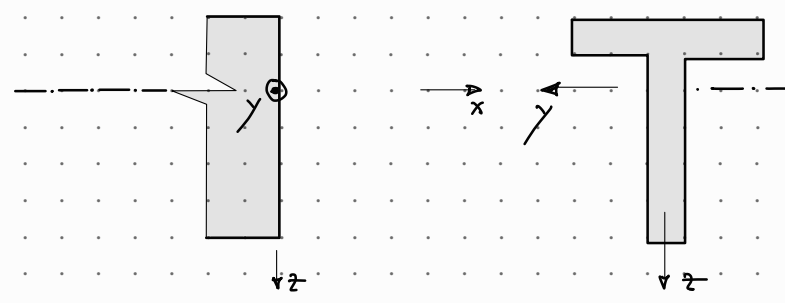


Linear members - Basics

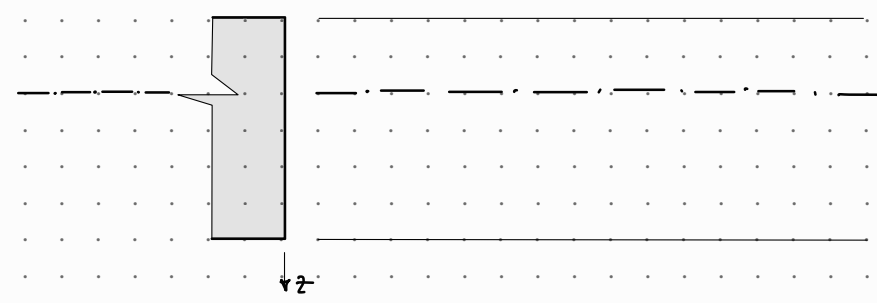
Equilibrium



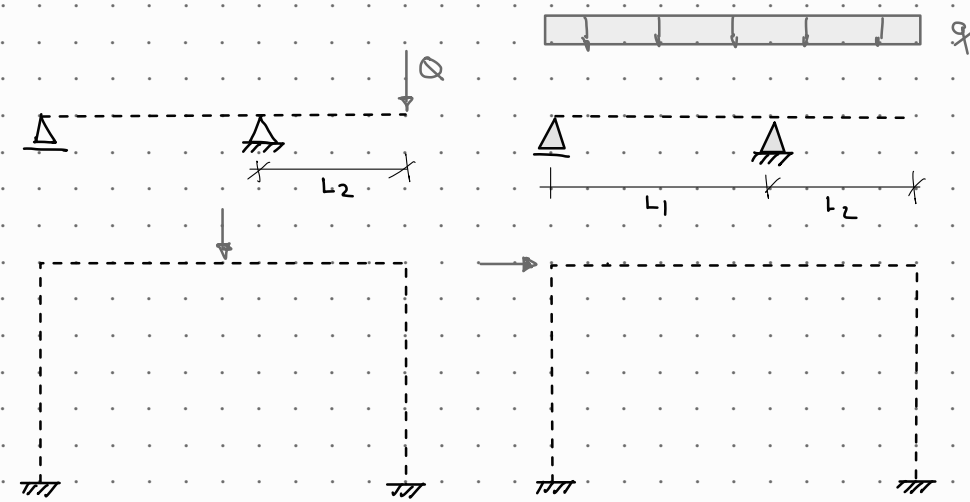
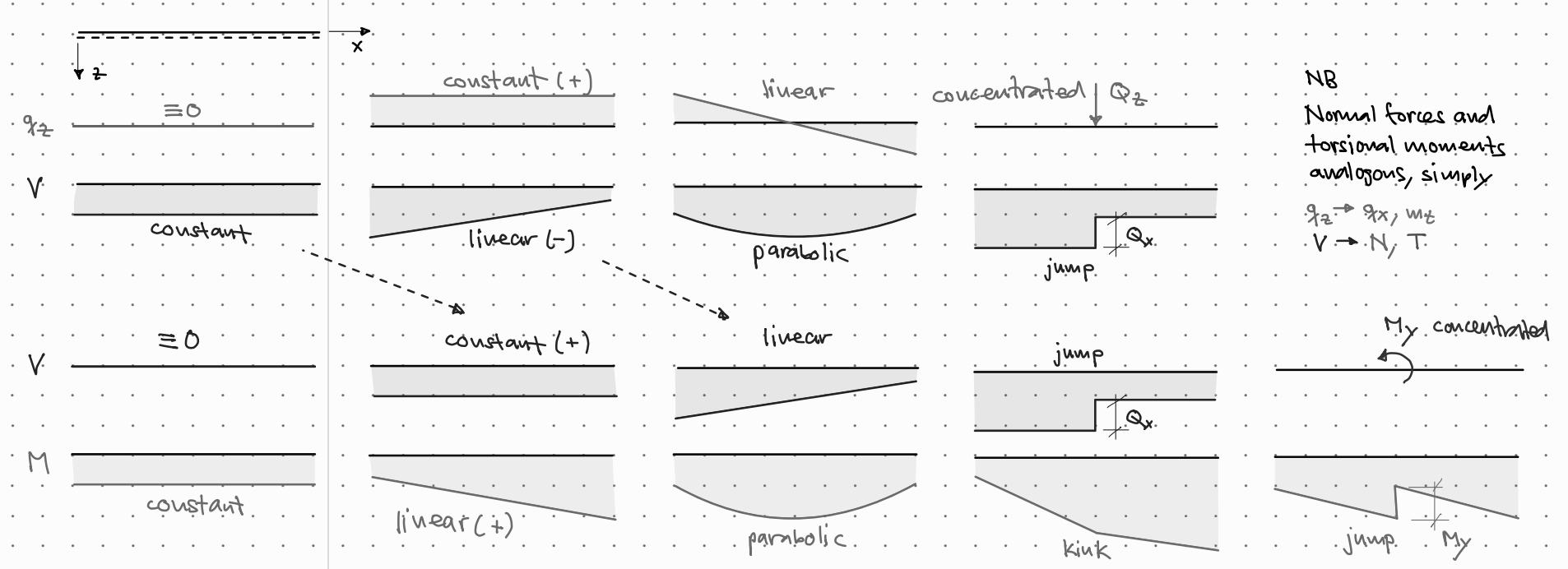
Stress resultants = internal actions (uniaxial bending)
(spannungsergebnisse = schnittkräfte)



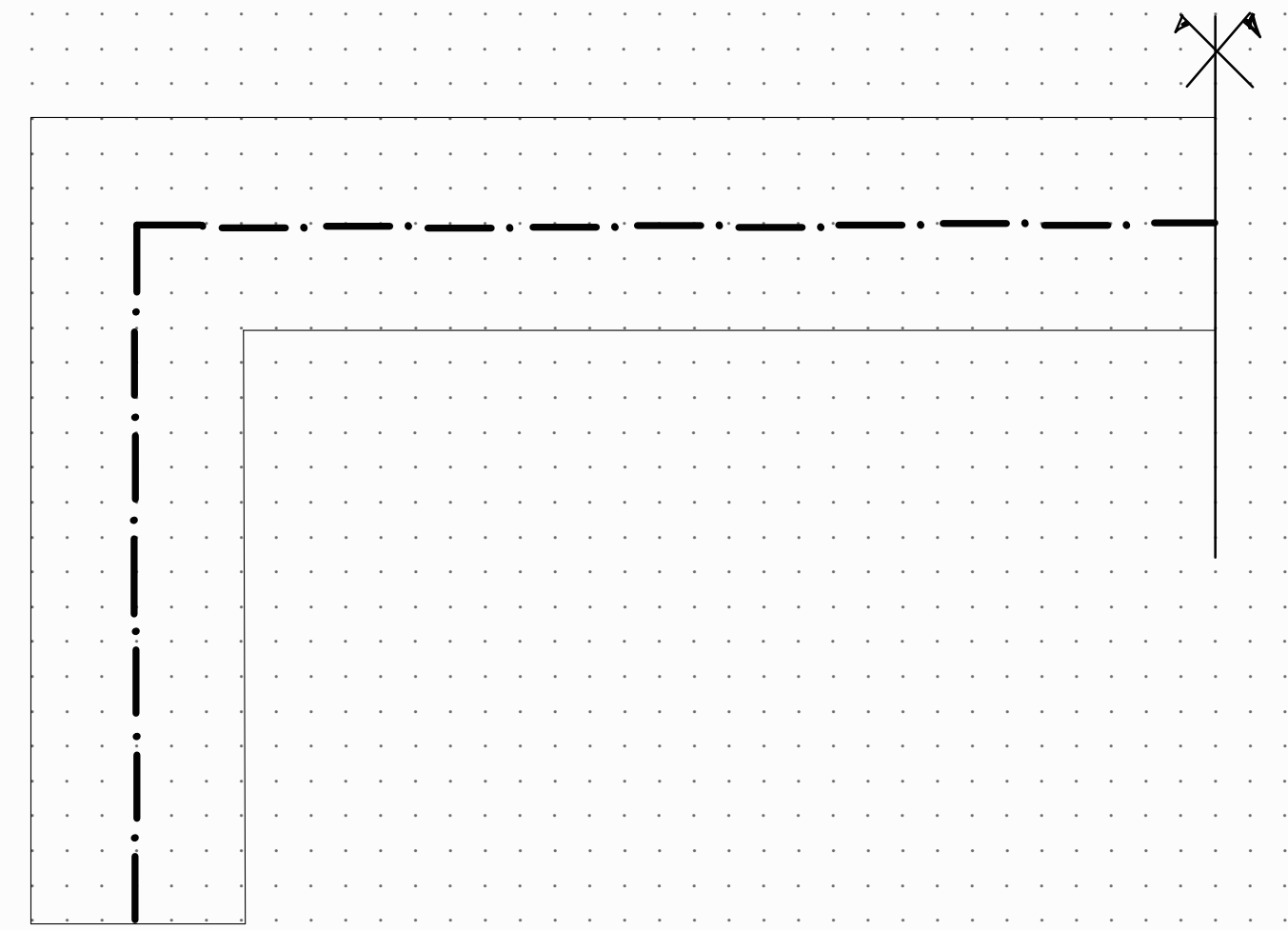
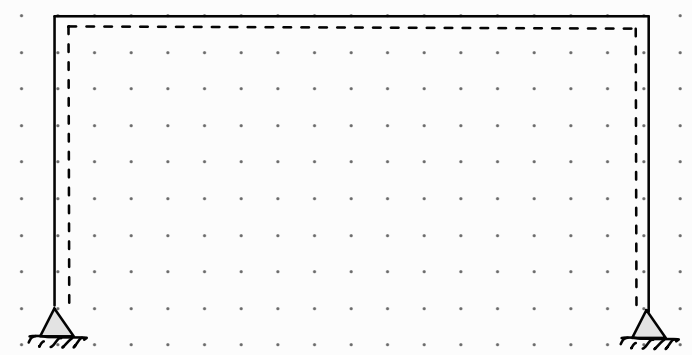
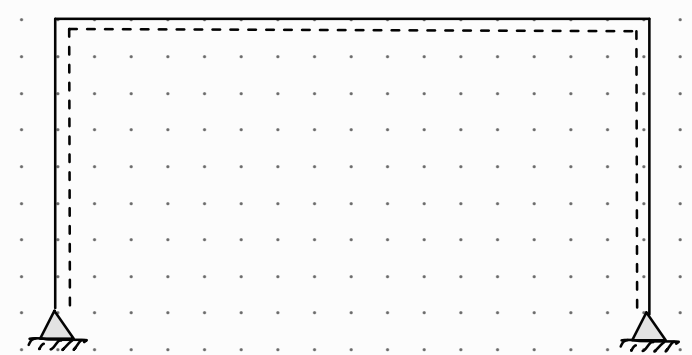
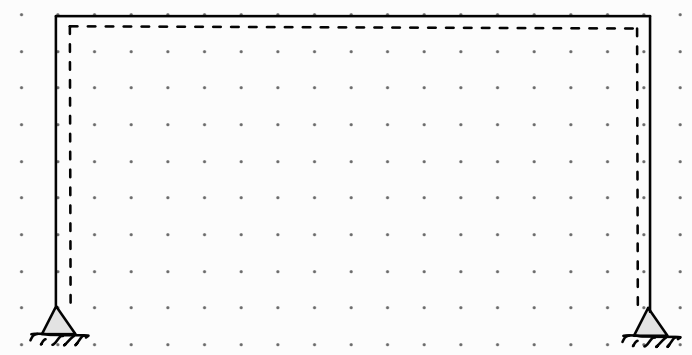
Kinematic restriction



Material characteristics



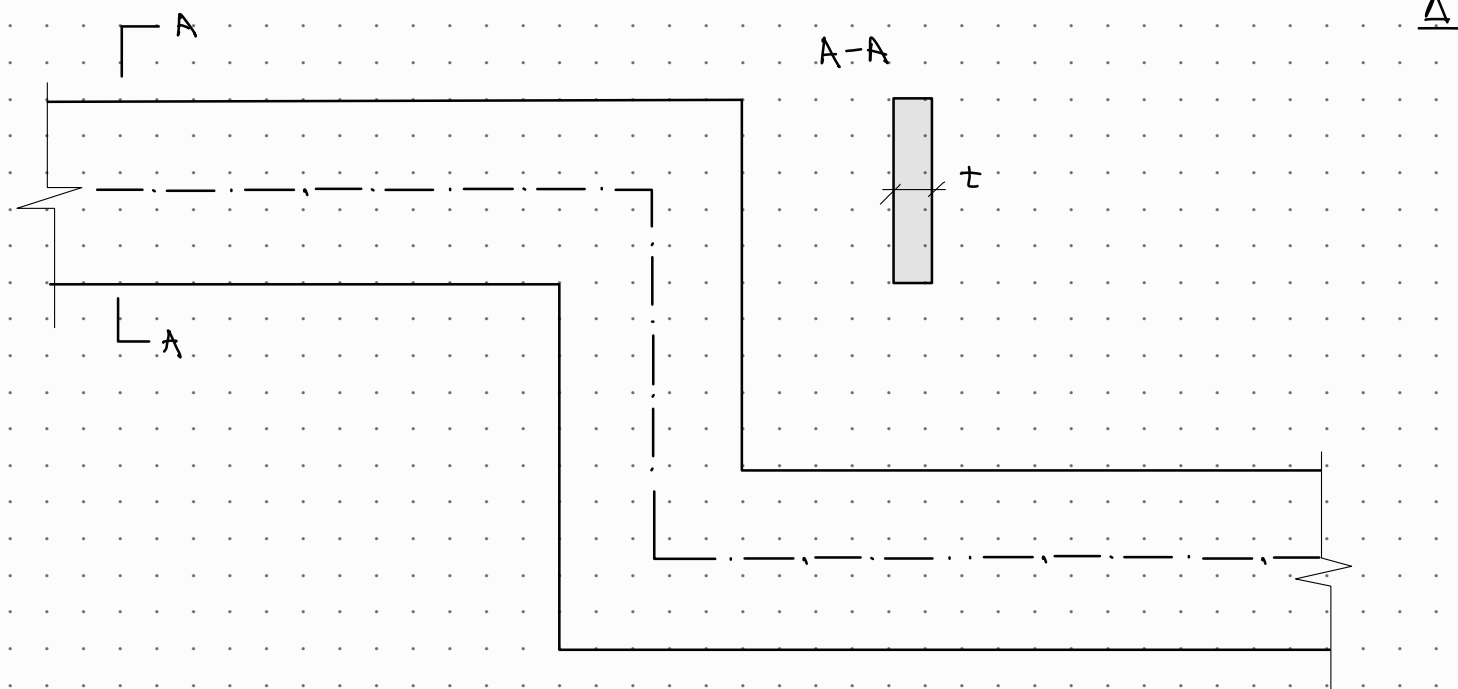
Stress fields - Introduction



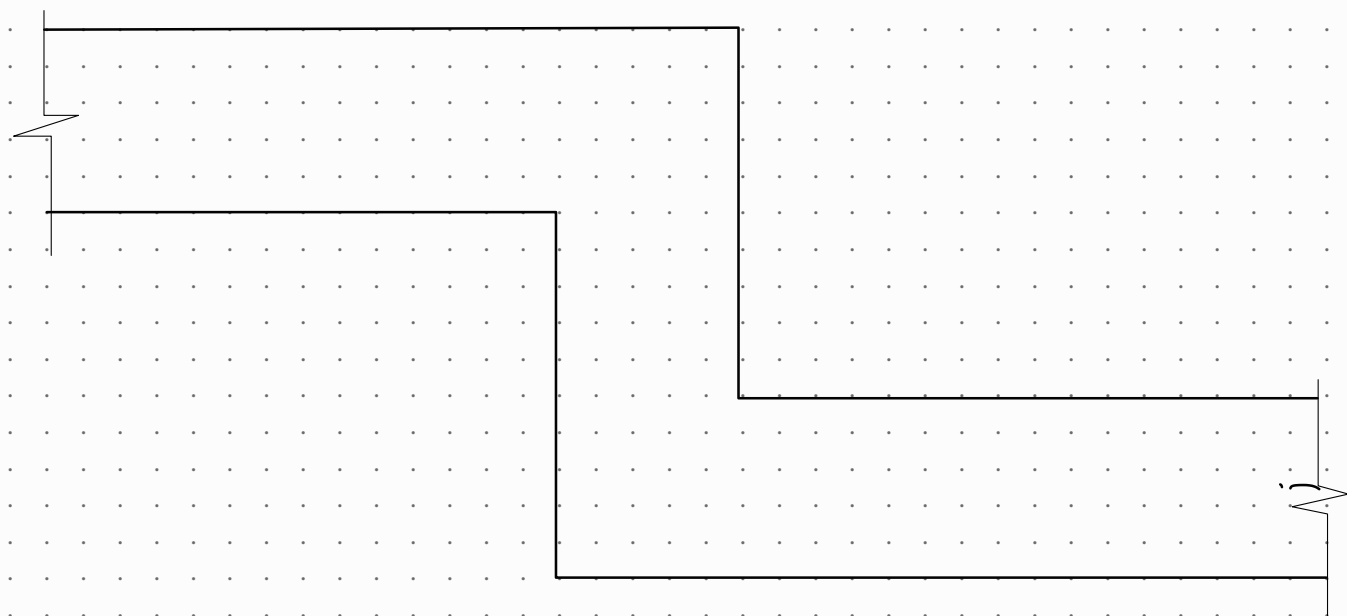
Truss models and stress fields

"simply supported girder"

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Truss model ("Stabwerkmodell")



Stress fields – Basics

In-class exercise

