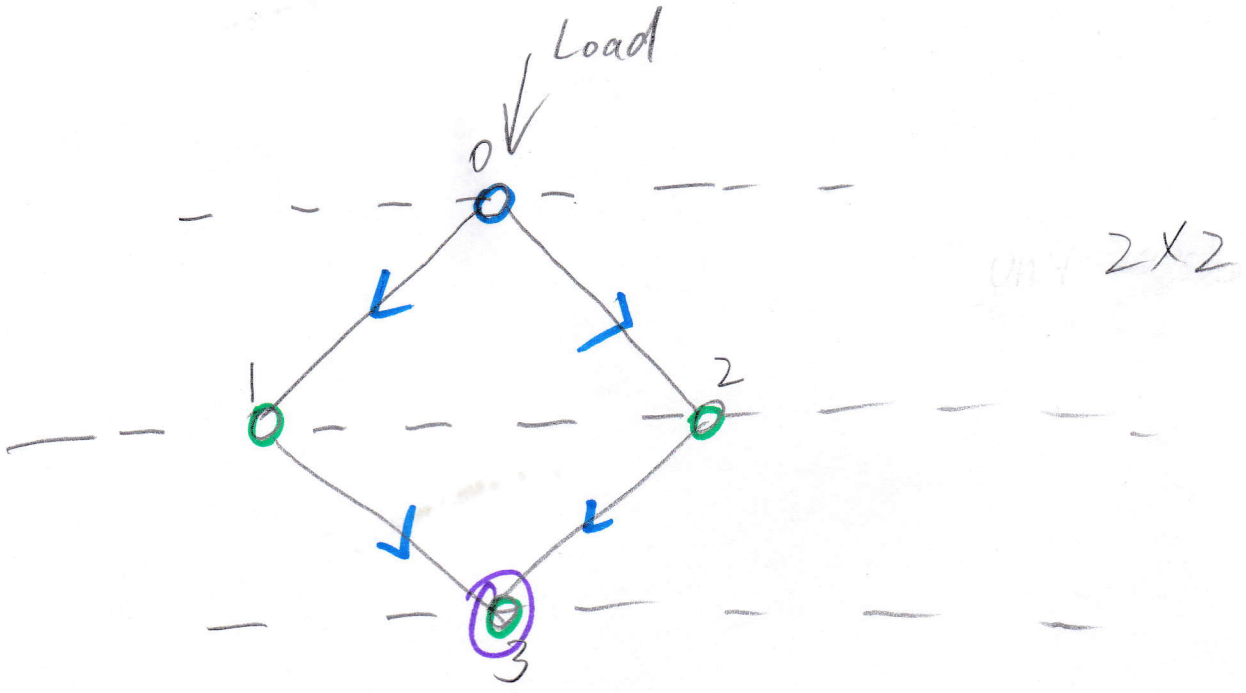
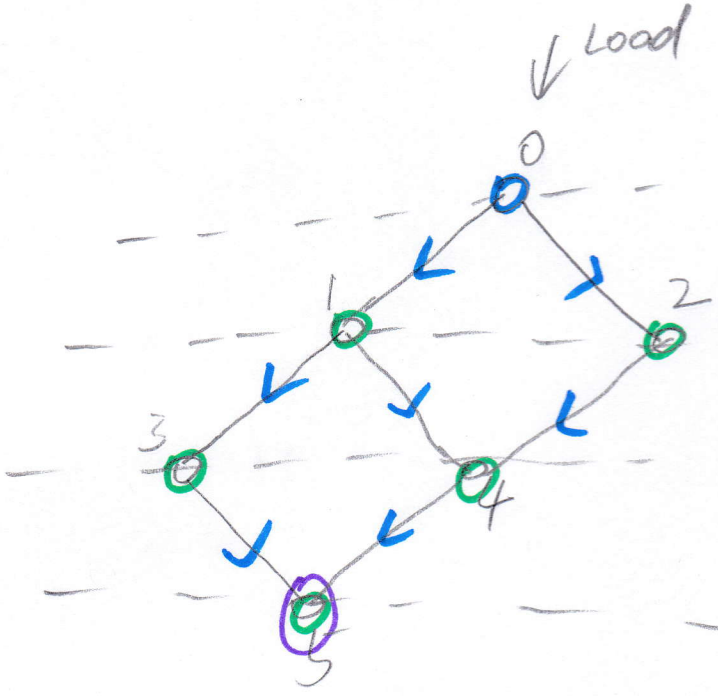
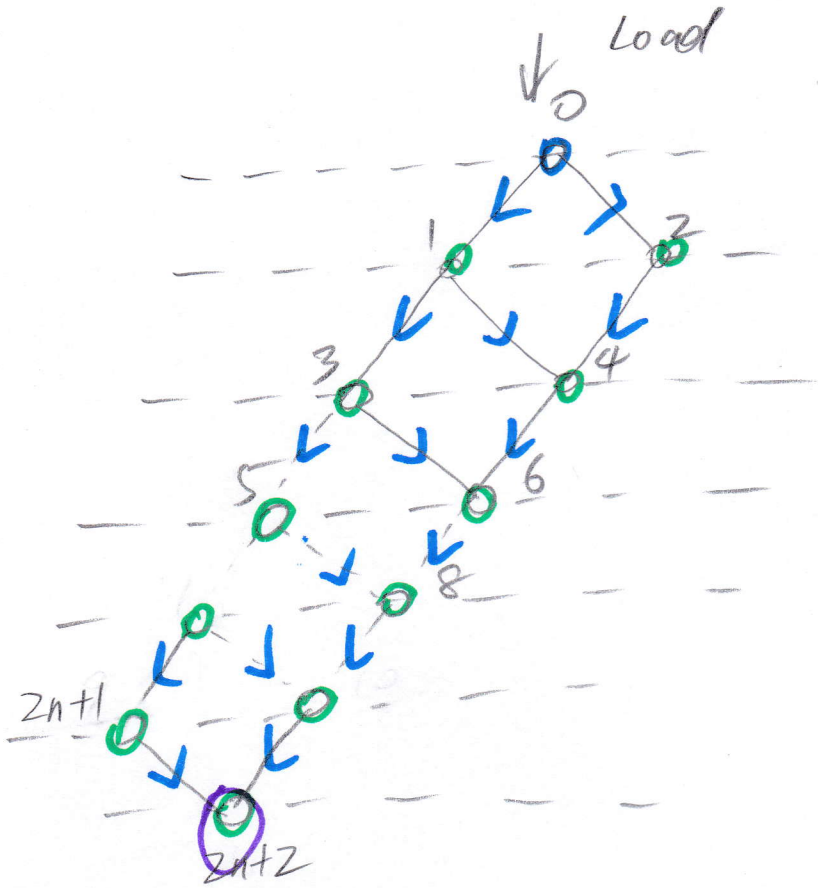


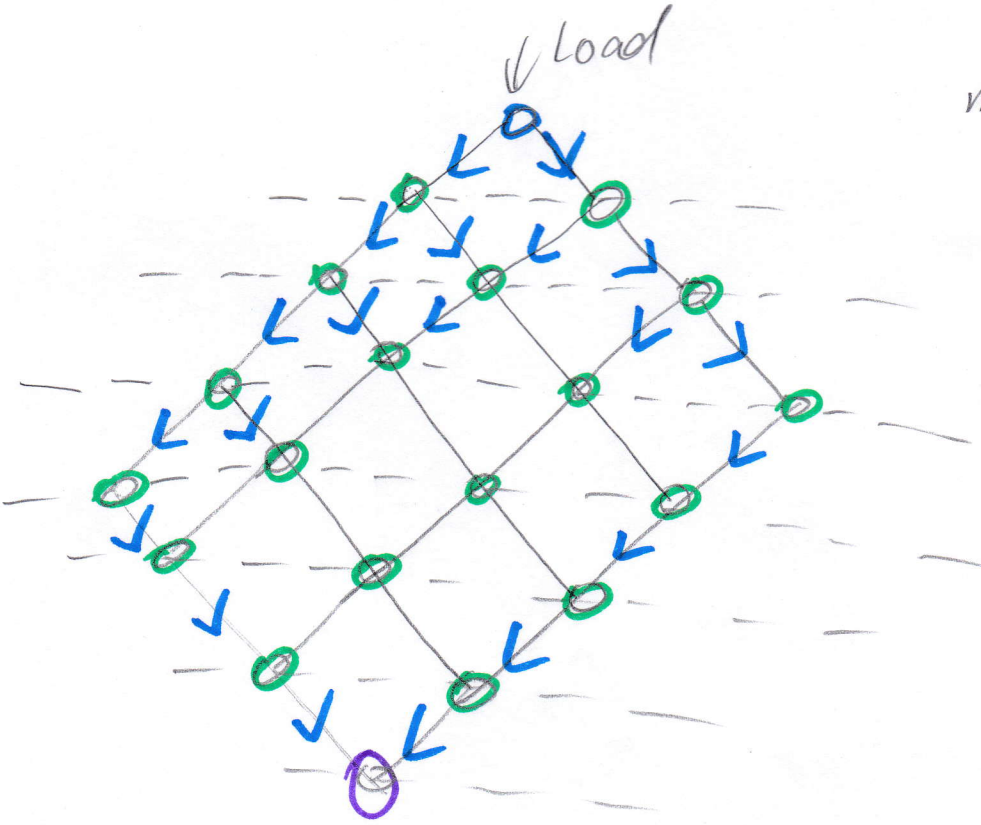
2X2



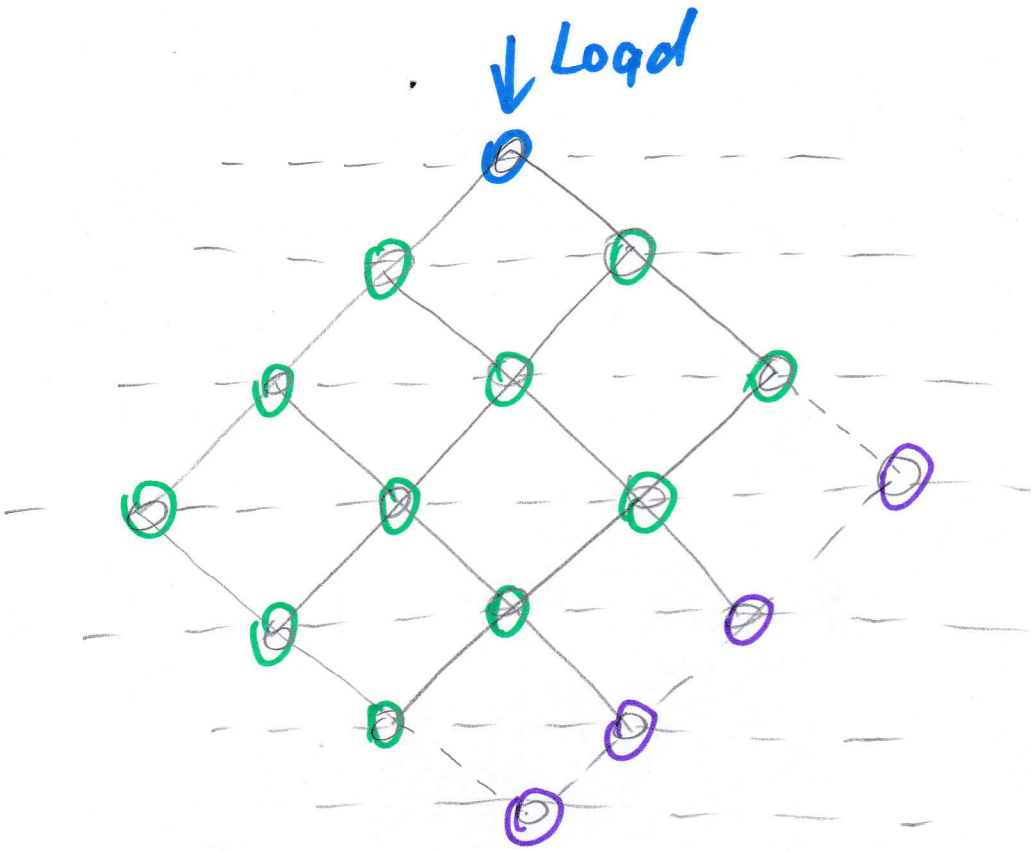
2X3 Mesh



2 x n Regular Mesh



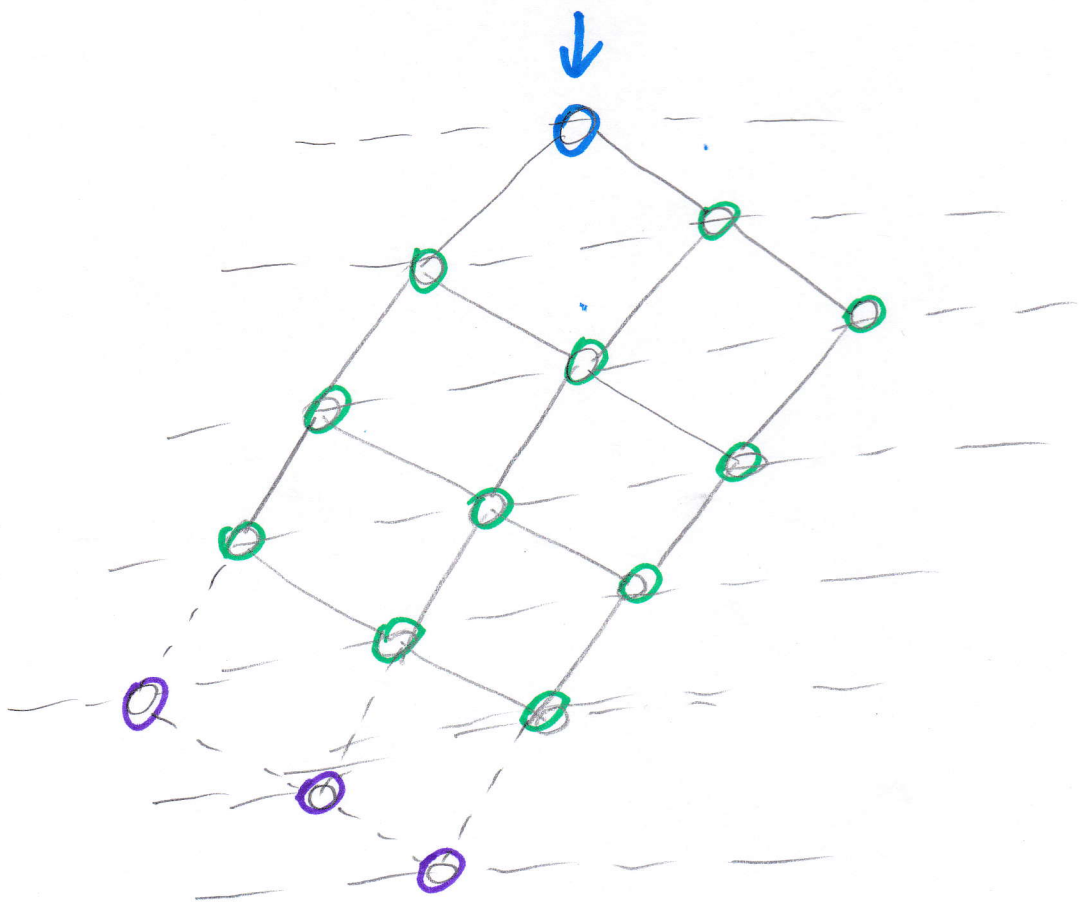
m x n Regular Mesh



$m \times n$

$\Downarrow$

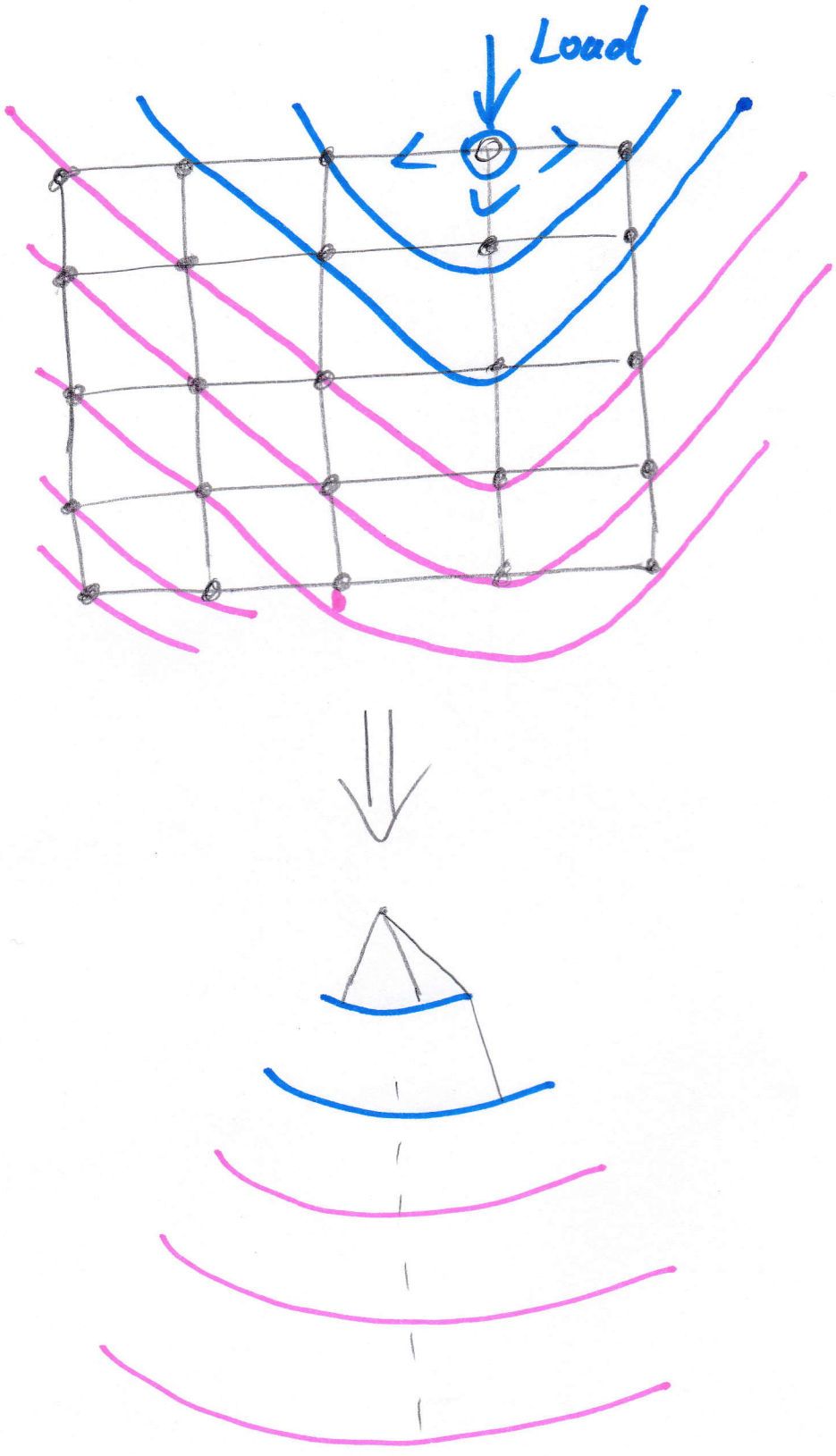
$(m+1) \times n$



$m \times n$

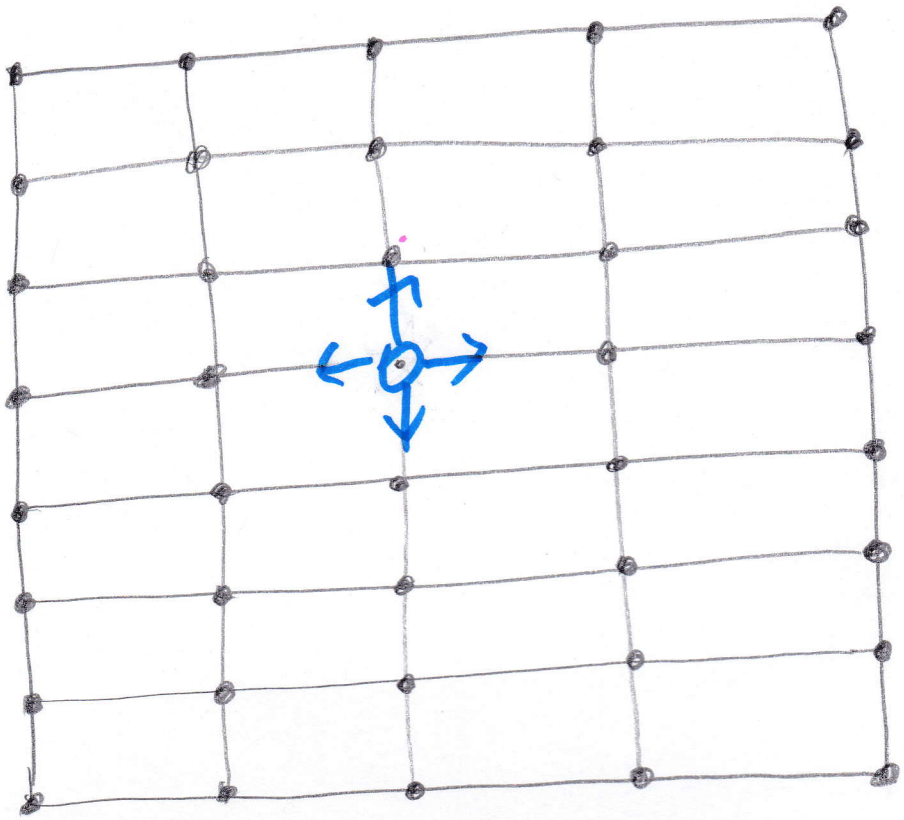
$\Downarrow$

$m \times (n+1)$

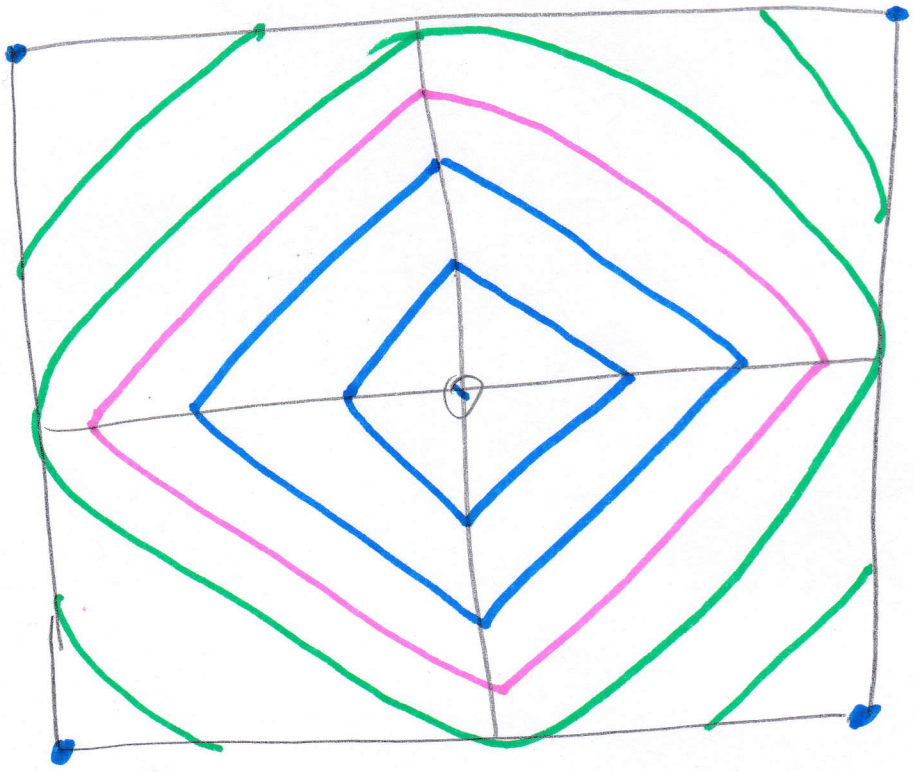


on edge

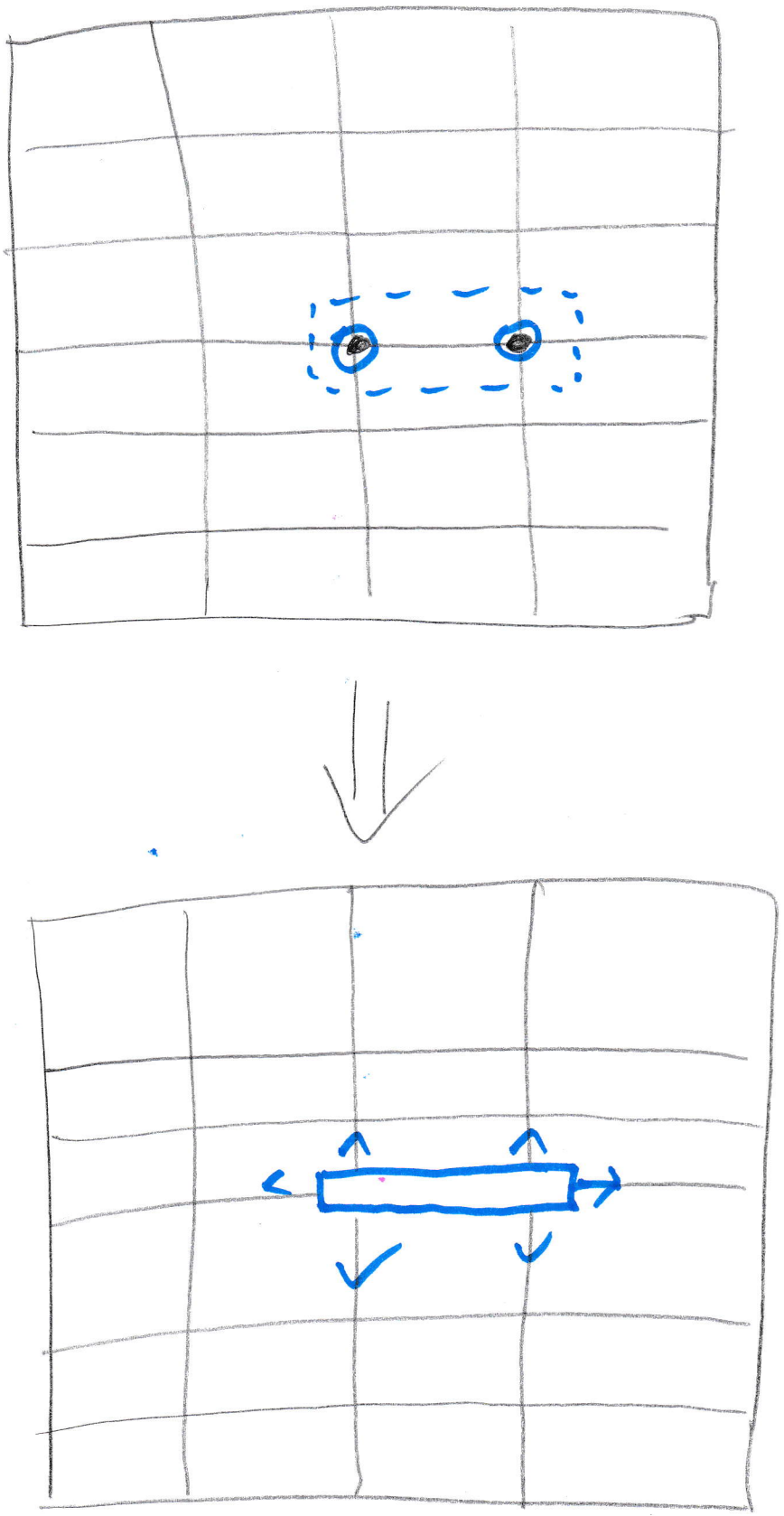
(4)



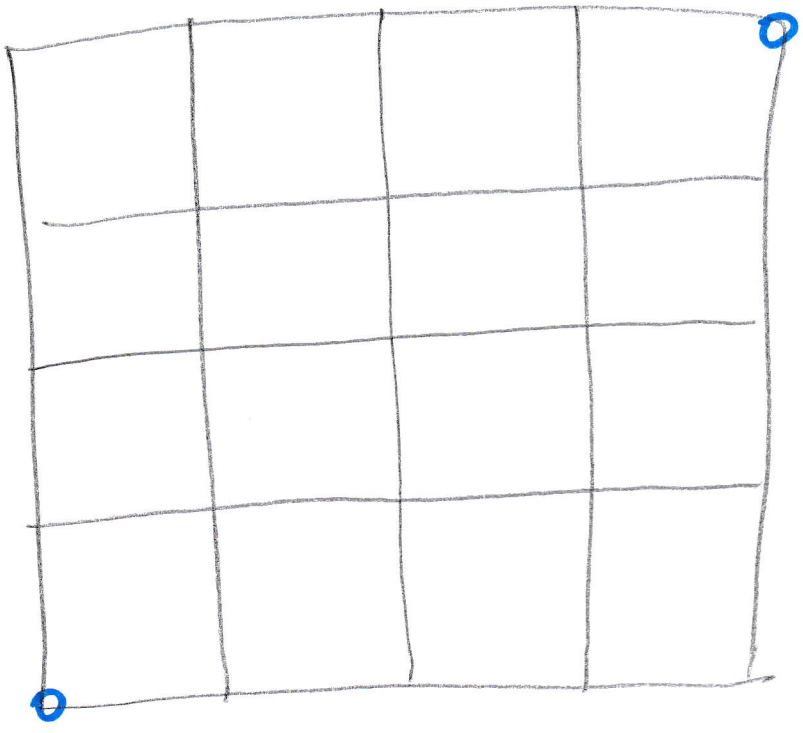
In the world.

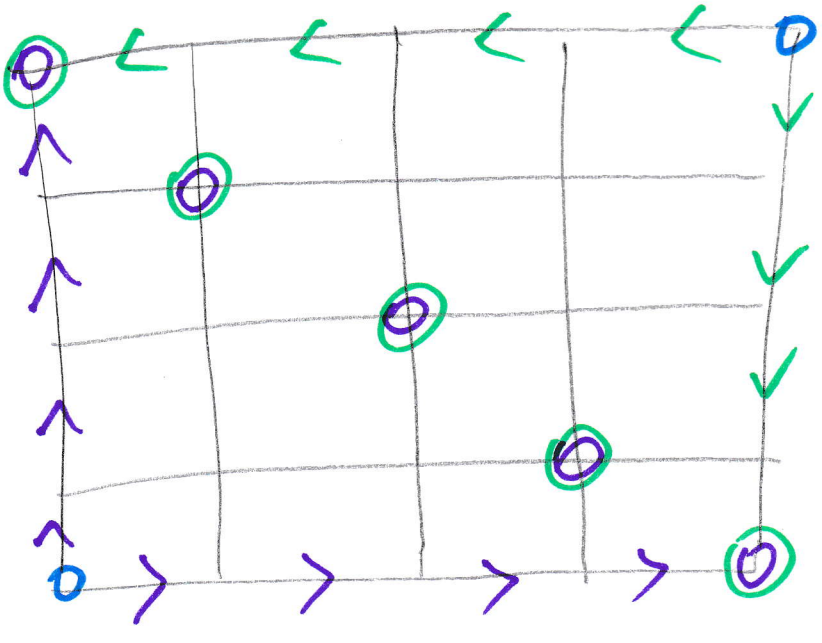


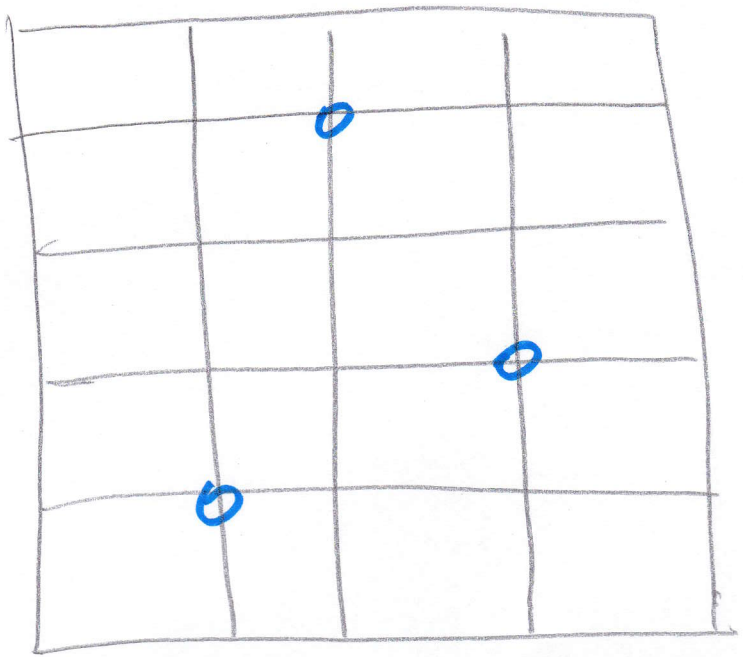
5



If load is evenly



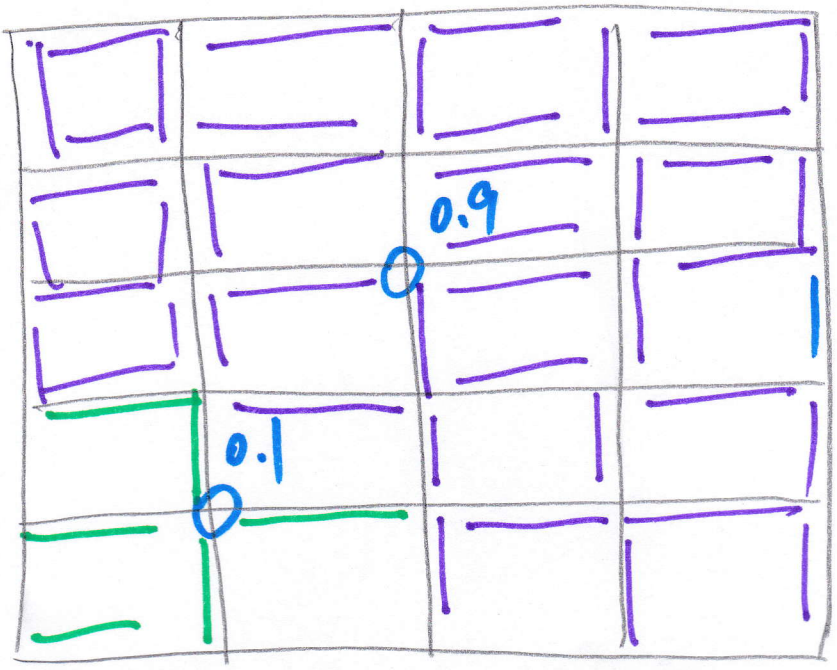




MXN
Noc Mesh

if the load
is evenly

Voronoi Diagram (Manhattan Distance)



if load is not even

1° Voronoi Diagram

2° compute the super-core ability, if the ability ratio ≈ Load ratio

Done

else

change the scale of subnetword individualy

Assume the Area $\simeq$ computation power

If we have know the load distribution

V_1, V_2, V_n

We use the optimall mass transport

to Divide the NOC whole Area.

Experiment:

1) PDE simulation

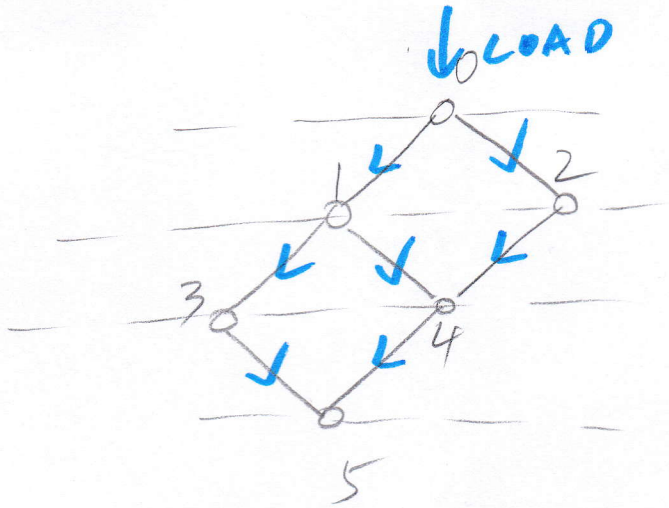
2) Superposition

3) Sub-optimal method
OR Super-core method.

4 Port:

Two option: 1) Simultaneously computing

2) After Receiving the fraction start computing.



Simultaneously start computing

0: $\alpha_0 w T_{cp} = T$

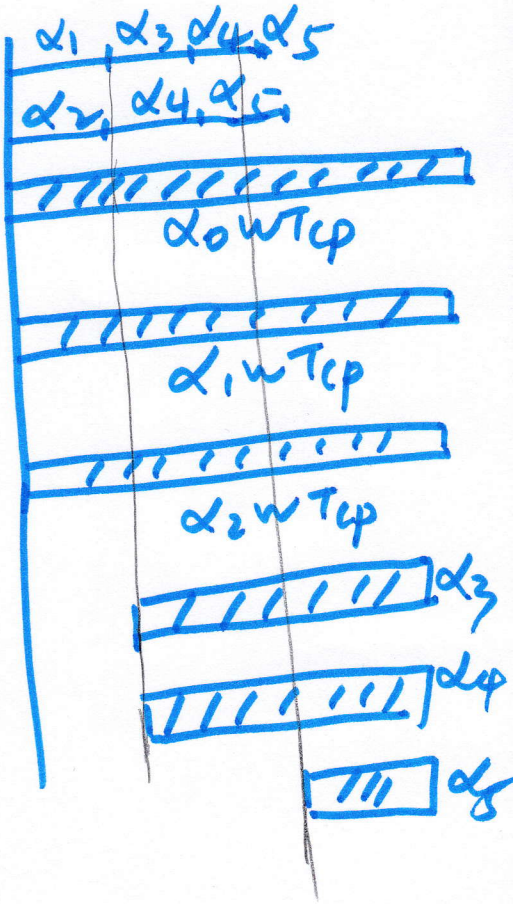
level 1: $\alpha_1 w T_{cp} = T$

$\alpha_2 w T_{cp} = T$

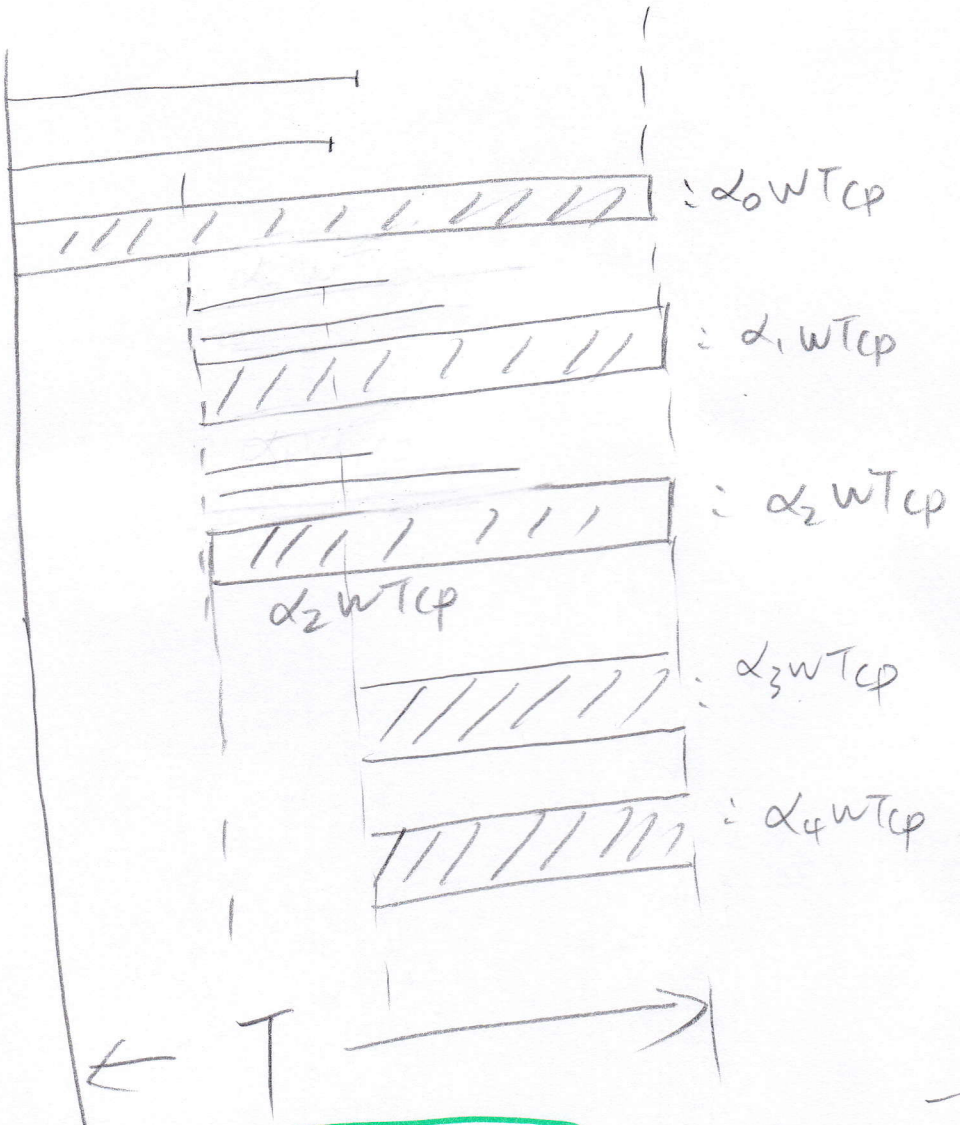
level 2: $\alpha_3 \cdot 2 T_{cm} + \alpha_3 w T_{cp} = T$

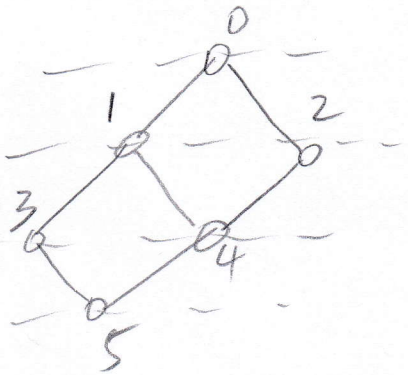
$\alpha_4 2 T_{cm} + \alpha_4 w T_{cp} = T$

level3: $2 \cdot \alpha_5 \cdot 2 T_{cm} + \alpha_5 w T_{cp} = T$



After Receiving the fraction start computing





$\alpha_0 w T_{cp} = T$: level 0

$\alpha_1 z T_{cm} + \alpha_1 w T_{cp} = T$

$\alpha_2 z T_{cm} + \alpha_2 w T_{cp} = T$

: level 1

$2\alpha_3 z T_{cm} + \alpha_3 w T_{cp} = T$

$2 \cdot \alpha_4 z T_{cm} + \alpha_4 w T_{cp} = T$

: level 2

$3\alpha_5 z T_{cm} + \alpha_5 w T_{cp} = T$: level 3