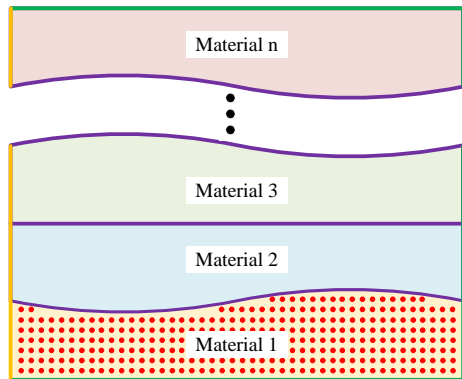
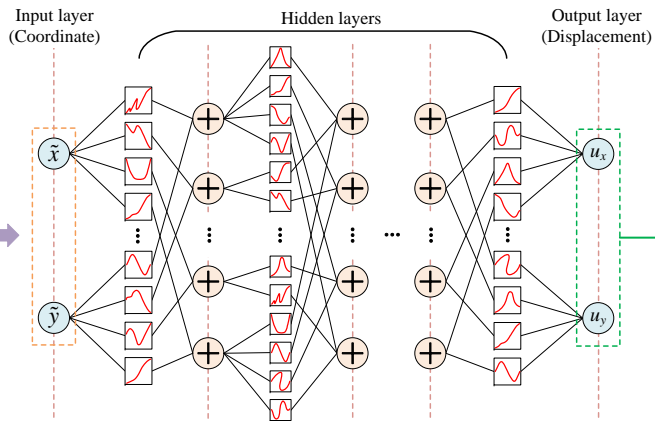


Physical domains



- Essential boundary
- Natural boundary
- Material interface
- Sample point

Kolmogorov-Arnold Networks



Update the trainable parameters θ

No

Minimum?

Yes

Done

Potential energy of the entire computational domain

Internal energy $\Psi_{in}^{m_1}$

Internal energy $\Psi_{in}^{m_2}$

Internal energy $\Psi_{in}^{m_n}$

External energy Ψ_{ex}

Admissible displacement of material 1: $\mathbf{u}_{m_1}^{pred}$

Admissible displacement of material 2: $\mathbf{u}_{m_2}^{pred}$

Admissible displacement of material n: $\mathbf{u}_{m_n}^{pred}$

Essential boundary conditions