$$\mathcal{L}(\psi) = 0$$

Definition of the microscale problem

Correct choice of the method!

$$\mathcal{L}(\psi)\rangle = 0$$

Apply averaging operator

> Define a different average

$$\psi = \langle \psi \rangle^{\beta} + \tilde{\psi}$$

Apply field decomposition operator

$$\mathcal{L}(\tilde{\psi}) - \left\langle \mathcal{L}(\tilde{\psi}) \right\rangle = \mathcal{S}$$

Determine perturbation problem

Make length-scales assumptions

Make different assumption

Apply length-scales assumption

$$\tilde{\psi} = \mathbf{R} \langle \psi \rangle^{\beta}$$

Establish the relation between micro-macro fields

$$Q(\mathbf{R}) = 0$$

Define the local perturbation problem

$$\mathbf{H} = \mathcal{F}(\mathbf{R})$$

Compute macro-scale effective parameters

$$\mathcal{M}(\langle \psi \rangle^{\beta}) = 0$$

Compute macro-scale problem

It is the correct choiche to my problem?

Define domain of validity