Example of a Poorly Designed Slide

Unhelpful slide title

Map Equation

$$\psi_1(X_1) = J_1 X_1 + b_1$$

- X_1: initial tetrahedron
- $\psi(X_1)$: transformed tetrahedron
- J_1: Jacobian matrix
- b_1: translation vector

Slide has no clear purpose!

Equation without context

Hard to parse. Can benefit from a diagram

Revised Example

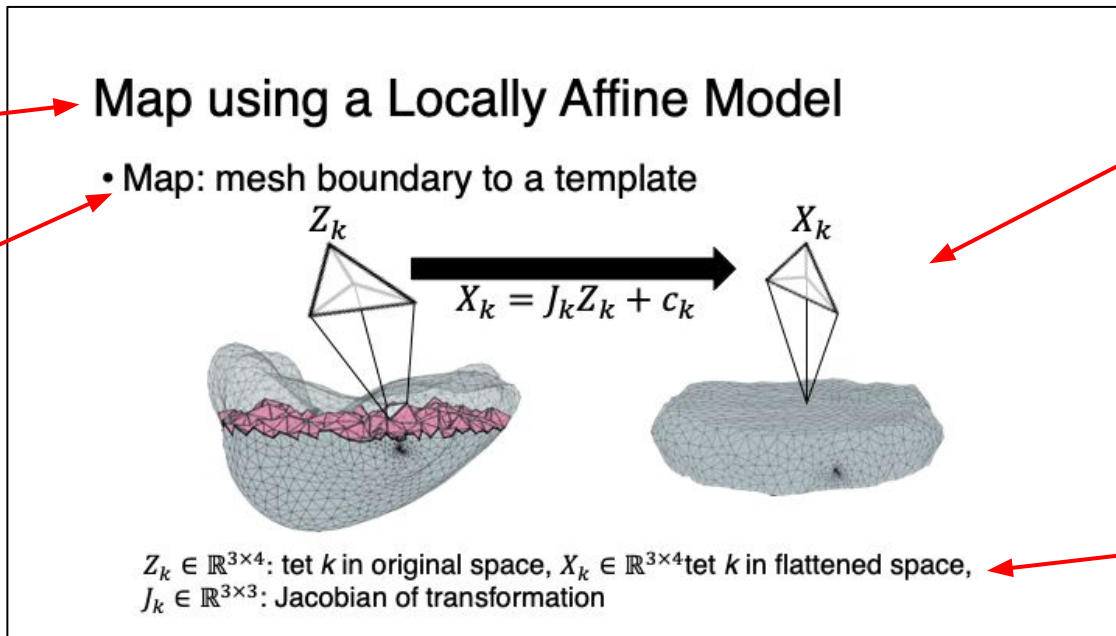Descriptive title with purpose

Concise: inputs and outputs

Diagram with real data provides context for equation and variables

Details for RQE examiners

Map using a Locally Affine Model

- Map: mesh boundary to a template

Z_k

$$X_k = J_k Z_k + c_k$$

X_k

$Z_k \in \mathbb{R}^{3\times4}$: tet k in original space, $X_k \in \mathbb{R}^{3\times4}$ tet k in flattened space, $J_k \in \mathbb{R}^{3\times3}$: Jacobian of transformation