Example of a Poorly Designed Slide

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!
Revised Example

Map using a Locally Affine Model

- Map: mesh boundary to a template

$Z_k \in \mathbb{R}^{3 \times 4}$: tet $k$ in original space, $X_k \in \mathbb{R}^{3 \times 4}$ tet $k$ in flattened space, $J_k \in \mathbb{R}^{3 \times 3}$: Jacobian of transformation

$X_k = J_k Z_k + c_k$