Computational Space (ξ, ζ)

Physical Space (y, z)

E $|\tilde{e}|_{\max} = -0.39$

C $|\tilde{e}|_{\max} = 0.48$

A $|\tilde{e}|_{\max} = 0.56$

B $|\tilde{e}|_{\max} = 0.39$

D $|\tilde{e}|_{\max} = 0.45$

z/h

y/h

ζ

ξ

Coordinate Transformation

$(y, z) \longleftrightarrow (\xi, \zeta)$

$\tilde{\mathbf{e}}_\alpha = J \cdot \mathbf{e}_\alpha$

$J = \left[\frac{\partial(\xi, \zeta)}{\partial(y, z)} \right]$

$\mathbf{e}_\alpha^{\text{phys}} = J^{-1} \cdot \mathbf{e}_\alpha$