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28 Jacobian Matrix:

Connection between the element dimensions in the global coordinate system with the equivalent dimensions in the natural coordinate system.;

$$\frac{dx}{dr} = \frac{d}{dr} \left( \sum_{j=1}^n N_j x_j \right) = \sum_{j=1}^n \frac{dN_j}{dr} x_j = \mathbf{J}^{-T} \mathbf{L}^T \mathbf{A} \mathbf{E} \mathbf{K}$$

From the equations above, the stiffness matrix of a bar is obtained as)

$$\mathbf{J}^T \hat{\mathbf{j}} \dots$$

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