$$\int_{\Omega} F\left(\subseteq \Delta E\right) : SF dV$$

$$= \int_{\Omega} F\left(\subseteq \Delta E\right) : SF dV$$

$$= \int_{\Omega} F_{0L} \left(\Delta E^{T} F\right) : SF dV$$

$$= \int_{\Omega} F_{0L} \left(\Delta E^{T} F\right) : SF_{0L} dV$$

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$$= \int_{\Omega} F_{0L} dV$$

$$= \int_{\Omega} F_{0L} dV$$

$$= \int_{\Omega} F_{0$$

$$\int_{\Omega} \left( \underbrace{F} \subseteq \right) : \delta F dV$$

$$= \int_{\Omega} F_{ik} S_{kj} \delta F_{ij} dV$$

$$= \int_{\Omega^{\text{ref}}} F_{ik} S_{kj} \delta S_{ki} M_{mn} J_{nj} del (J^{-1}) dV$$

$$= \int_{\Omega^{\text{ref}}} F_{kk} S_{kj} M_{mn} J_{nj} del (J^{-1}) dV$$

$$= \int_{\Omega^{\text{ref}}} F_{kk} S_{kj} M_{mn} J_{nj} del (J^{-1}) dV$$

$$= \int_{\Omega^{\text{ref}}} F_{ik} S_{kl} M_{j,m} J_{ml} del (J^{-1}) dV$$

$$= \int_{\Omega^{\text{ref}}} F_{ik} S_{kl} M_{j,m} J_{ml} del (J^{-1}) dV$$