

$$\boldsymbol{P} \equiv -p\boldsymbol{F}^{-T} + 2\boldsymbol{F}\frac{\partial\psi_1}{\partial\mathcal{C}} + 2\boldsymbol{F}\boldsymbol{F}_a^{-1}\frac{\partial\psi_2}{\partial\mathcal{C}_e}\boldsymbol{F}_a^{-T}$$