Deformation Gradient reprene confid spotial config motion fully describes
change in configuration tearslation Shape change Catation godient intellence contry = Deprivation grader = $\pm = \operatorname{Clog}(\overline{S}(\bar{x}^{1}f)) = \frac{9\overline{X}}{9\overline{X}}$ $X = \Im(X, t) \stackrel{\text{Lar}}{=} \Im(X) = X_{2}$ 2 xon p $\frac{1}{1 - 3x} = \frac{3x}{3x} = \frac$ $\frac{\partial x}{\partial x} = \begin{bmatrix} \frac{\partial x_1}{\partial x_1} & \frac{\partial x_2}{\partial x_2} & \frac{\partial x_2}{\partial x_2} \\ \frac{\partial x_1}{\partial x_2} & \frac{\partial x_2}{\partial x_2} & \frac{\partial x_2}{\partial x_2} \end{bmatrix} = \begin{bmatrix} 6x_1 x_2 & 3x_1^2 & 3t x_2^2 \\ -t & 0 & 2x_3 & 2x_3 \\ \frac{\partial x_2}{\partial x_2} & \frac{\partial x_2}{\partial x_2} & \frac{\partial x_2}{\partial x_2} \end{bmatrix} = \begin{bmatrix} -t & 0 & 2x_3 & 3t x_2^2 \\ 0 & 2x_3 & 3x_2 & 3x_3 \end{bmatrix}$

DI not necessarily symmetric

27 is still a perchand & &t