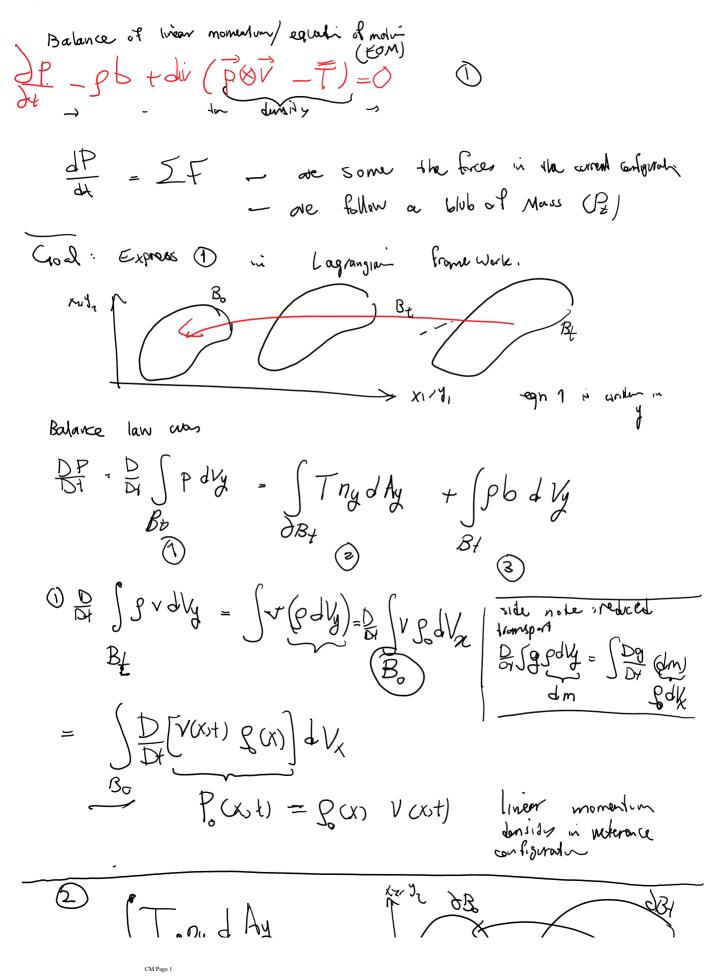
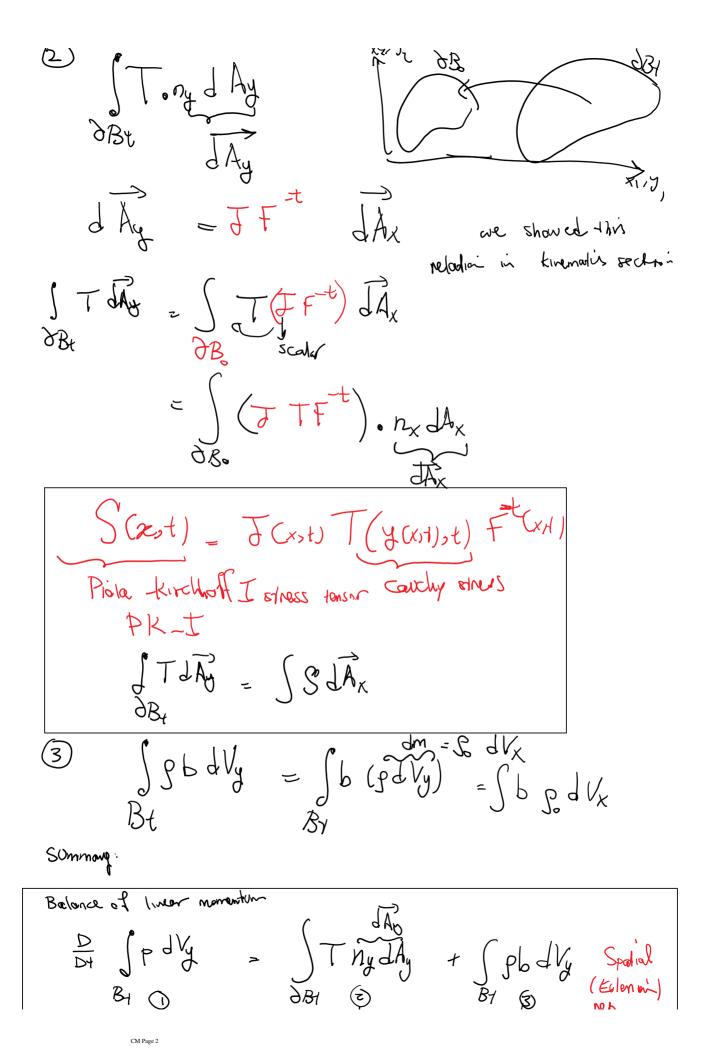
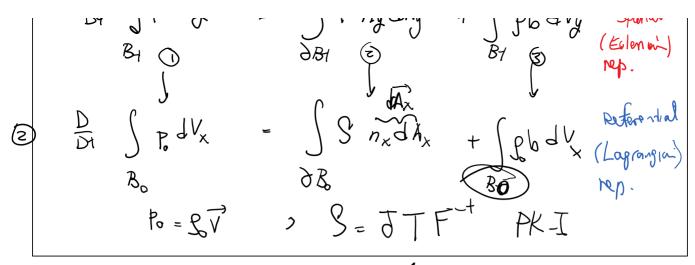
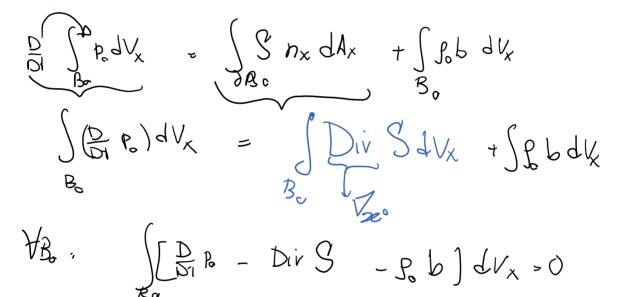
CM2021/11/16 Tuesday, November 16, 2021 4:31 PM







Obtaining the strong form of bal. of him nom. in reference



$$\sum_{D_{1}} Localization \qquad DA: Dir S - P_{0}b = 0$$

$$\sum_{D_{1}} DS(x) V(x_{5}t) = S_{1}(x) \qquad Dv(x_{5}t) = S_{0}(x_{5}) \qquad Dv(x_{5}) = S_{0}($$

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$$\frac{D}{Q} \frac{B}{R} - Dir S = g b$$

$$\frac{D}{Q} \frac{B}{R} - Sa$$

$$DWS + Sijj ei \qquad \begin{bmatrix} Sui i + Sizz + Siz, s \\ Sui i + Szz + Sizz, s \\ Svi i + Szz + Sizz, s \\ Svi i + Szz + Sizz, s \end{bmatrix}$$

$$\frac{G}{V} \frac{V}{i} = (Sii i + Sizz + Sizz, s) - g b_{1}$$

$$S_{0} \frac{U}{2} = (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

$$g \frac{U}{2} = (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

$$\frac{Q}{v} \frac{U}{2} - (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

$$\frac{Q}{v} \frac{U}{2} - (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

$$\frac{Q}{v} \frac{U}{2} - (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

$$\frac{Q}{v} \frac{U}{2} - (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

$$\frac{Q}{v} \frac{U}{2} - (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

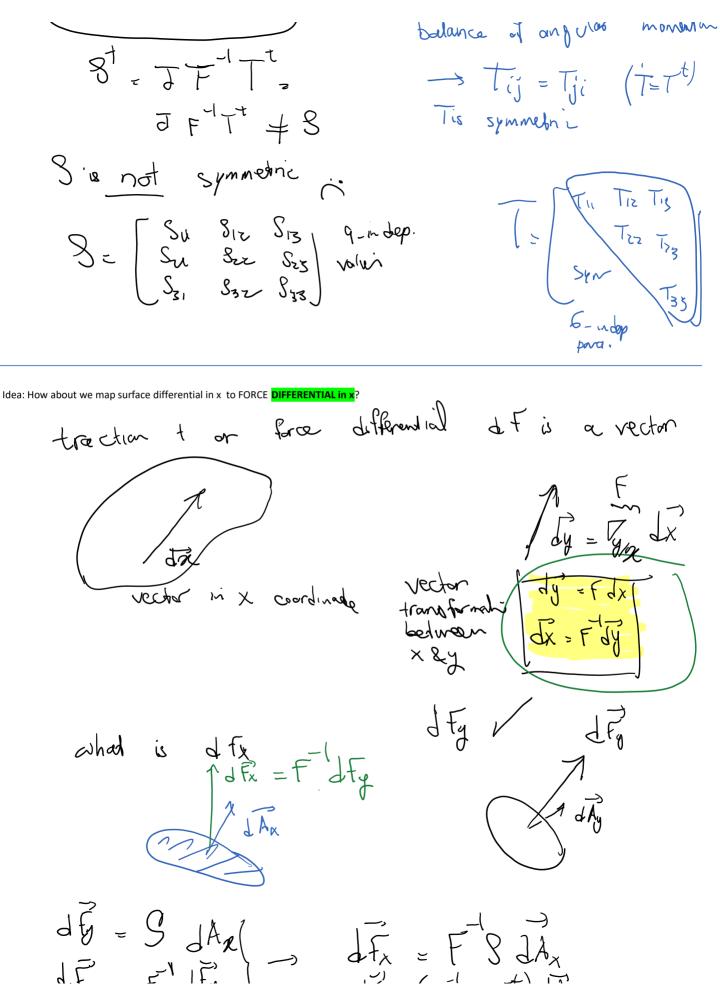
$$\frac{Q}{v} \frac{U}{2} - (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

$$\frac{Q}{v} \frac{U}{2} - (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

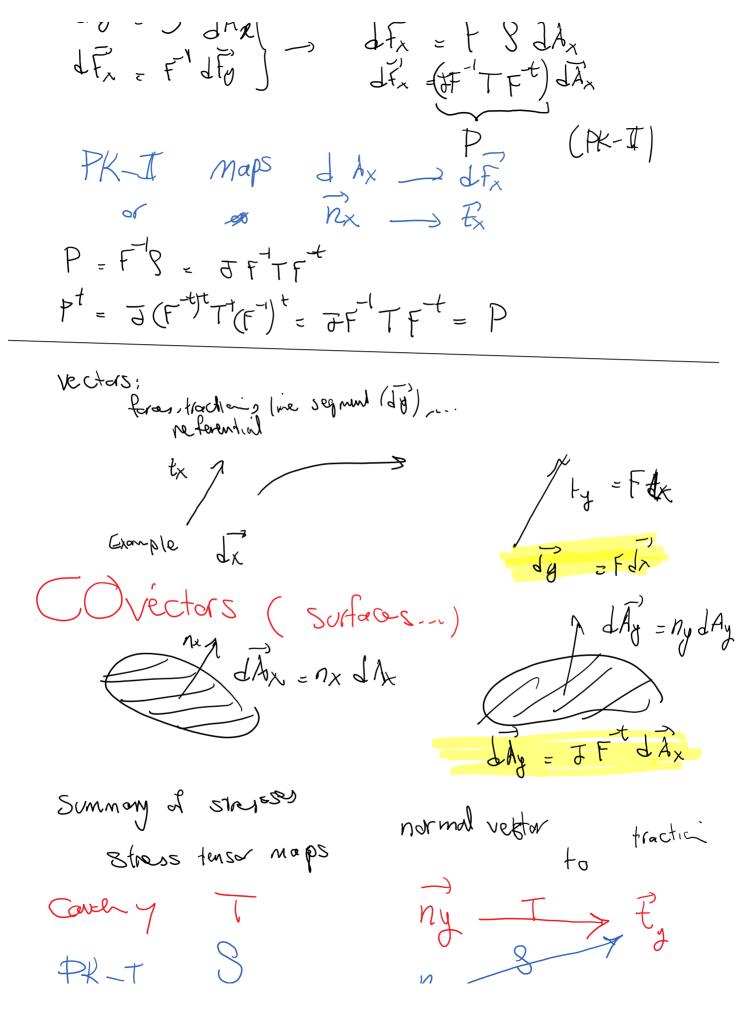
$$\frac{Q}{v} \frac{U}{2} - (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

$$\frac{Q}{v} \frac{U}{2} - (Szv_{1} + Sizz + Sizz, s) - g b_{2}$$

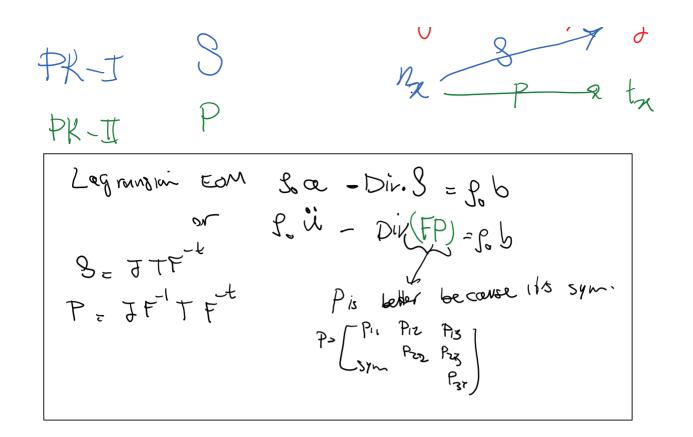
$$\frac{Q}{v} \frac{U}{v} \frac{U}{v}$$



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Balance of energy (hand-out will be given for Thermodynamics laws I, II) Thermodynamics law I

total energy for 2dy By = D fedly رآمد  $= \left( r_{e}^{\prime} dV_{y} - \int f_{e}^{\prime} dV_{y} \right)$ D8 D1 .JAy volumetric  $\mathcal{B}_{+}$  $\partial B_+$ energy density (Scalor) e = to v.v kinedic energy densily + U (F. Mechanical  $+ \frac{1}{(E.D + H.B)}$ 

X\_, Y1

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