where $A\hat{\rho} = \sqrt{G}$ $A\hat{Z} = \sqrt{G}/\rho$

Mixed Kormulchion: $S_{\xi} = -div(A\sigma)$ $\sigma = AVS$

 $(S_{T}, V)_{\Sigma} = -(dN(A\sigma), V)_{\Sigma} = (A\sigma, \nabla V)_{\Sigma} + \langle \hat{A}\sigma, (V) \rangle_{\Sigma_{L}}$ $\hat{A}\sigma : \langle \hat{A}\xi\sigma \rangle \text{ if } e \in \xi_{L}^{E} \approx \text{ indusion edges}$ $(O \text{ on } \partial_{\Sigma}\Sigma) = 2$ Assume $G_{L}(E_{L}, E_{L}, E_{$

Suppose 5 = 0, p+0, Z (Ao, AV) = [(6, Ap · 02 Ap) · (= p p + V-2 2) p dpdz = July of the pot of the first of the puts doll While the volume jacobian is p2 dolz, the effective jacobian once the gradient is given in the woordnote system, independent of the glows, is the same as the surface reactions on the surface that is constant wint the dervoting p dervatire (first tum): surfue jacobien p 7 dematic (second tam): surface caeotisis profes

 $=\int_{z} \sqrt{c_{3}} \frac{1}{6} \frac{1}{3} \frac{1}{\rho} \cdot \left[\sqrt{z^{2}} + \sqrt{z^{2}} \right] \rho \sqrt{z^{2}} d\rho$ $=\int_{z} \sqrt{c_{3}} \frac{1}{6} \frac{1}{3} \frac{1}{2} \cdot \left[\sqrt{z^{2}} + \sqrt{z^{2}} \right] \rho \sqrt{z^{2}} d\rho \qquad \text{if edge has 3 ordand}$ $=\int_{z} \sqrt{c_{3}} \frac{1}{6} \frac{1}{3} \frac{1}{2} \cdot \left[\sqrt{z^{2}} + \sqrt{z^{2}} \right] \rho \sqrt{z^{2}} d\rho \qquad \text{if edge has 3 ordand}$ $=\int_{z} \sqrt{c_{3}} \frac{1}{6} \frac{1}{3} \frac{1}{2} \cdot \left[\sqrt{z^{2}} + \sqrt{z^{2}} \right] \rho \sqrt{z^{2}} d\rho \qquad \text{if edge has 3 ordand}$ $=\int_{z} \sqrt{c_{3}} \frac{1}{6} \frac{1}{3} \frac{1}{2} \cdot \left[\sqrt{z^{2}} + \sqrt{z^{2}} \right] \rho \sqrt{z^{2}} d\rho \qquad \text{if edge has 3 ordand}$