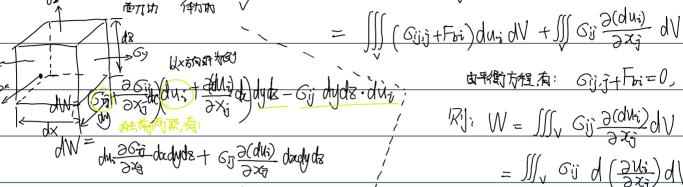
应变能函数表达式的推导

设等性存变形组,外力放的功为dW,则有:

$$dW = dW_1 + dW_2 = \iiint \left(\frac{\partial u_i}{\partial u_i} \right) du_i + \left(\frac{\partial u_i}{\partial u_i} \right) dv + \iiint \left(\frac{\partial u_i}{\partial u_i} \right) dv + \iiint \left(\frac{\partial u_i}{\partial u_i} \right) dv + \iint \left(\frac{\partial u_i}{\partial u_i} \right)$$



$$= \iiint_{V} G_{ij} \left(\frac{\partial V_{i}}{\partial X_{i}} \right) dV$$

②应变能

因热力等等定律:对行绝数过程,有:

$$dW = dV$$



一般情况即: Un= = (Gx Ex+ Gy Ey+ Gz Ez+ Txy /xy+ Txz /xz+ Tyz/xz)

注意由于 0、规磷(3)) 广义 Hank 定律;